# PRELIMINARY ASSESSMENT MICROWAVE POWER DEVICES, INC. HAUPPAUGE, NEW YORK

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8902-07
CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

**MARCH 20, 1989** 

NUS CORPORATION SUPERFUND DIVISION

**SUBMITTED BY:** 

JOANN L. WAGNER PROJECT MANAGER

SUSAN ANDERSON SITE MANAGER **REVIEWED/APPROVED BY:** 

RONALD M. NAMAN FIT OFFICE MANAGER



# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PA	ART I: SITE INFORMATION		
1.	Site Name/Alias Microwave Power Devices, Inc.		
	Street 330 Oser Avenue		· · · · · · · · · · · · · · · · · · ·
	City <u>Hauppauge</u>	State New York	Zip 11787
2.	and the second s	The same of the sa	Cong. Dist. 04
3	EPA ID No. <u>NYD044470680</u>	<del></del>	
4.	Latitude 40° 49′ 02″ N	Longitude73° 15	′ 53″ W
	USGS Quad. Greenlawn, New York		
5.	Owner Microwave Power Devices, Inc.	Tel. No(516)	231-1400
	Street 330 Oser Avenue		
	City <u>Hauppauge</u>	State New York	Zip <u>11787</u>
6.	Operator Microwave Power Devices, Inc.	Tel. No. <u>(516) 231</u>	-1400
	Street 330 Öser Avenue		
	City Hauppauge	State New York	Zip <u>11787</u>
7.	Type of Ownership		
	☑ Private ☐ Federal ☐ State	•	
	☐ County ☐ Municipal ☐ Unkr	iown 📋	Other
8.	Owner/Operator Notification on File		
	☐ RCRA 3001 Date	CERCLA 103c	Date
	■ Noné ☑ Unknown		
9.	Permit Information		
	Permit Permit No. Date Issued	<b>Expiration Date</b>	Comments
	Air Unknown Unknown		Indicated on 1986 NYSDEC inspection form
10.	Site Status		
	☑ Active ☐ Inactive ☐	] Unknown	
11.	Years of Operation August 1, 1979	to Present	<del></del>
12.	Identify the types of waste units (e.g., landfill,	, surface impoundm	ent, piles, stained soil,

above- or below-ground tanks or containers, land treatment, etc.) on site. Initiate as many waste unit numbers as needed to identify all waste sources on site.

(a) Waste Management Areas

Waste Unit No.	Waste Unit Type	Facility Name for Unit
1	Underground Storage Tank	Chemical Waste Storage Tank
2	Drum Storage	Drum Storage
3	Aboveground Tank	Aboveground Tank
4	Underground Tank	Underground Tank

	(b) Other Areas	of Concern					
	Identify any misco their locations on		mping, etc. on sit	e; describe the	materials and identify		
	There are no know	There are no known incidents of miscellaneous spills, dumping, etc. on site.					
13.	Information availa	ble from					
	Contact Amy Bro	chu A	gency U.S. EPA	т	el. No. <u>(201) 906-6802</u>		
	Preparer Susan A	nderson A	gency NUS Corp.	Region 2 FIT D	Date March 20, 1989		

Waste Unit 1 - Underground Storage Tank Chemical Waste Storage Tank

1. Identify the RCRA status and permit history, if applicable, and the age of the waste unit.

The facility filed a notification of hazardous waste activity on November 6, 1980; wastes are accumulated in tanks or containers for less than 90 days. The chemical waste storage tank has been present on site since at least 1980; it was reported to be in the process of closure in 1986.

2. Describe the location of the waste unit and identify clearly on the site map.

The chemical waste storage tank is located outside along the east wall of the Microwave Power Devices Inc. building, 5 feet underground.

3. Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.

The capacity of the chemical waste storage tank is reported to be between 800 and 880 gallons. However, the actual quantity of hazardous substances contained in this waste unit is unknown.

4. Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.

The physical state of the waste as disposed of in the metal holding tank is reported to be liquid.

- 5. Identify specific hazardous substance(s) known or suspected to be present in the waste unit.

  The chemical waste storage tank is reported to contain unspecified corrosive liquid.
- 6. Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.

The chemical waste storage tank is reported to be in sound condition. However, the containment features associated with it are unknown.

Ref. Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

For each of the waste units identified in Part I, co	omplete the following six items.
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Waste Unit 2 - Drum Storage Drum Storage

1. Identify the RCRA status and permit history, if applicable, and the age of the waste unit.

The facility filed a notification of hazardous waste activity on November 6, 1980; wastes are accumulated in tanks and containers for less than 90 days. It is not known when the facility began storing wastes in drums; however, a May 1986 New York State Department of Environmental Conservation (NYSDEC) inspection report indicated the presence of drums containing hazardous waste on site.

2. Describe the location of the waste unit and identify clearly on the site map.

The location of the drums is unknown.

3. Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.

There reportedly were fifty-four 55-gallon drums on site at the time of the NYSDEC inspection in 1986.

4. Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.

The physical state of the waste as disposed of in the drums is liquid.

5. Identify specific hazardous substance(s) known or suspected to be present in the waste unit.

The specific hazardous substances reported to be present in the drums are 1,1,1-trichloroethane, Freon, ammonium persulfate, ferric chloride, acetone, ethyl alcohol, methyl alcohol, chloroform, and oil and dirt.

6. Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.

The drums are reported to be in sound condition. However, the location of the drum storage area and the containment features associated with it are unknown.

Ref. Nos. <u>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11</u>

For each of the waste units identified in Part I, complete the	following six items.
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Waste Unit 3 - Aboveground Tank Aboveground Tank

1. Identify the RCRA status and permit history, if applicable, and the age of the waste unit.

On a 1983 NYSDEC RCRA inspection form, it was reported that two new 1000-gallon double-wall fiberglass tanks were to be used to hold the rinse water and sludge that would be generated by a newly installed waste treatment system; however, on a 1986 New York State Industrial Hazardous Waste Management Act form, it was reported that a 1200-gallon aboveground tank contained spent solvent and a 3000-gallon underground tank contained sludge. Based on this information, it is assumed that the two 1000-gallon tanks alluded to in 1983 are actually the 1200-gallon aboveground tank and the 3000-gallon underground tank. The facility filed a notification of hazardous waste activity on November 6, 1980; wastes are accumulated in tanks or containers for less than 90 days.

2. Describe the location of the waste unit and identify clearly on the site map.

The location of the aboveground tank is unknown.

3. Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.

The capacity of the aboveground tank is reported to be 1200 gallons; however, the quantity of hazardous waste it contains is unknown.

4. Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.

The physical state of the waste as disposed of in the aboveground tank is most likely liquid.

- 5. Identify specific hazardous substance(s) known or suspected to be present in the waste unit.

  The aboveground tank is reported to contain unspecified spent solvents.
- 6. Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.

The aboveground tank is reported to be in sound condition.

Ref. Nos. <u>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11</u>

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Waste Unit 4 - Underground Tank Underground Tank

1. Identify the RCRA status and permit history, if applicable, and the age of the waste unit.

On a 1983 NYSDEC RCRA inspection form, it was reported that two new 1000-gallon double-wall fiberglass tanks were to be used to hold the rinse water and sludge that would be generated by a newly installed waste treatment system; however, on a 1986 New York State Industrial Hazardous Waste Management Act form, it was reported that a 1200-gallon aboveground tank contained spent solvents and a 3000-gallon underground tank contained sludge. Based on this information, it is assumed that the two 1000-gallon tanks alluded to in 1983 are actually the 1200-gallon aboveground tank and the 3000-gallon underground tank. The facility filed a notification of hazardous waste activity on December 20, 1980; wastes are accumulated in tanks or containers for less than 90 days.

2. Describe the location of the waste unit and identify clearly on the site map.

The location of the underground tank is unknown.

3. Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.

The capacity of the underground tank is reported to be 3000 gallons; however, the quantity of hazardous waste it contains is unknown.

4. Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.

The physical state of the waste as disposed of in the underground tank is sludge.

- 5. Identify specific hazardous substance(s) known or suspected to be present in the waste unit.

  The underground tank is reported to contain metal hydroxide sludge.
- 6. Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.

The underground tank is reported to be in sound condition.

Ref. Nos. <u>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11</u>

# PART III: HAZARD ASSESSMENT

### **GROUNDWATER ROUTE**

1. Describe the likelihood of a release of contaminant(s) to the groundwater as follows: observed, alleged, potential, or none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminant(s) to the facility.

There is little potential for a release of contaminants to the groundwater, as the waste units are in sound condition. However, it is unknown whether there is an impermeable liner beneath any of the waste units. Any release that might occur would most likely be a result of human intervention and/or error.

Ref. Nos. 1, 2

2. Describe the aquifer of concern; include information such as depth, thickness, geologic composition, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, groundwater flow direction.

The aquifer of concern consists of glacial sand and gravel deposits overlying and hydraulically connected to the Magothy Formation. The Magothy is characteristically composed of fine to medium sand that is partly clayey; it may be interbedded with lenses and layers of coarse sand and sandy and solid clay. The approximate thickness of the aquifer, including the glacial deposits and the Magothy Formation, may be as much as 1,700 feet; the depth from the land surface to the top of the Magothy ranges from 0 to approximately 600 feet. The direction of groundwater flow is generally southward; the depth to the water table is approximately 80 feet.

Ref. Nos. 12, 15

3. Is a designated sole source aquifer within 3 miles of the site?

The aquifers underlying Nassau and Suffolk Counties received sole source aquifer designation in 1978.

Ref. No. 13

4. What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern?

The depth of the underground chemical waste storage tank is reported to be 5 feet; however, the depth of the 3000-gallon underground tank is unknown. The depth from the ground surface to the water table of the aquifer of concern is approximately 80 feet. Therefore, the depth from the lowest point of waste storage to the highest seasonal level of the aquifer of concern is approximately 75 feet.

Ref. Nos. 1, 2, 4, 12, 15

5. What is the permeability value of the least permeable continuous intervening stratum between the ground surface and the aquifer of concern?

The unsaturated zone may consist of glacial deposits of varying permeability, including till, outwash deposits, and glaciolacustrine deposits. Site-specific permeability values are unknown; permeabilities could range from less than 10-7 centimeters per second (cm/sec) for till to greater than 10-3 cm/sec for outwash deposits.

Ref. Nos. 12, 14

6. What is the net annual precipitation for the area?

Net annual precipitation is approximately 13.5 inches.

Ref. No. 14

7. Identify uses of groundwater within 3 miles of the site (i.e., private drinking source, municipal source, commercial, industrial, irrigation, unusable).

Groundwater is the primary source for drinking water and all other uses throughout Suffolk County.

Ref. Nos. 13, 15

8. What is the distance to and depth of the nearest well that is currently used for drinking or irrigation purposes?

Distance Approximately 4000 feet Depth 423 feet

Ref. Nos. 15, 16, 18

9. Identify the population served by the aquifer of concern within a 3-mile radius of the site.

The aquifer of concern is a sole source aquifer, serving at least 79,800 people within 3 miles of the site via public supply and nonmunicipal community water systems.

Ref. Nos. 13, 15, 16, 17

### **SURFACE WATER ROUTE**

10. Describe the likelihood of a release of contaminant(s) to surface water as follows: observed, alleged, potential, or none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminants to the facility.

There is little potential for a release of contaminants to surface water because there is no migration pathway to a natural surface water body within 3 miles. Industrial and residential areas are located between the site and a pond 2 miles northeast of the site. There are numerous recharge basins located within the vicinity of the site which would intercept runoff.

**Ref. No. 18** 

11. Identify and locate the nearest downslope surface water. If possible, include a description of possible surface drainage patterns from the site.

There are no natural surface waters located along a migration pathway. The New Millpond is located approximately 2 miles northeast of the site; however, there are no apparent migration pathways from the site to the pond. Developed areas intercept runoff between the site and the pond.

**Ref. No. 18** 

12. What is the facility slope in percent? (Facility slope is measured from the highest point of deposited hazardous waste to the most downhill point of the waste area or to where contamination is detected.)

The facility slope as defined above cannot be calculated, as there is no documentation of onsite hazardous waste disposal or contamination. The average site slope is estimated to be less than 3 percent.

Ref. Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 19

13. What is the slope of the intervening terrain in percent? (Intervening terrain slope is measured from the most downhill point of the waste area to the probable point of entry to surface water.)

The intervening terrain slope as defined above cannot be calculated, as there is no documentation of waste disposal and no probable point of entry into surface water. The average site slope is estimated to be less than 3 percent.

Ref. Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 19

14. What is the 1-year 24-hour rainfall?

The 1-year 24-hour rainfall is approximately 2.7 inches.

Ref. No. 14

15. What is the distance to the nearest downslope surface water? Measure the distance along a course that runoff can be expected to follow.

There is no migration pathway to a natural surface water body within 3 miles.

Ref. No. 18

16. Identify uses of surface waters within 3 miles downstream of the site (i.e., drinking, irrigation, recreation, commercial, industrial, not used).

Adjacent to New Millpond are a county park and a country club; based on this observation, the uses of the pond are presumed to be recreational. There are no apparent migration pathways from the site to the pond. Developed areas intercept runoff between the site and the pond.

Ref. No. 18

17. Describe any wetlands, greater than 5 acres in area, within 2 miles downstream of the site. Include whether it is a freshwater or coastal wetland.

There are no wetlands, greater than 5 acres in area, within 2 miles of the site.

Ref. No. 18

18. Describe any critical habitats of federally listed endangered species within 2 miles of the site along the migration path.

There are no critical habitats of federally listed endangered species within 2 miles of the site.

Ref. No. 20

19. What is the distance to the nearest sensitive environment along or contiguous to the migration path (if any exist within 2 miles)?

There are no sensitive environments within 2 miles along a migration pathway.

Ref. Nos. 18, 20

20. Identify the population served or acres of food crops irrigated by surface water intakes within 3 miles downstream of the site and the distance to the intake(s).

Not applicable; there are no surface waters within 3 miles downstream of the site.

Ref. No. 18

21. What is the state water quality classification of the water body of concern?

Hokowa

22. Describe any apparent biota contamination that is attributable to the site.

There are no known documented incidents of biota contamination that could be attributed to the site.

Ref. Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 19

### AIR ROUTE

23. Describe the likelihood of a release of contaminant(s) to the air as follows: observed, alleged, potential, none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminant(s) to the facility.

There have been no reported incidents of a release of contaminants to the air at this site. Drums are stored on site and are reported to be in sound condition; however, the location of the drums is unknown. The chemical waste storage tank is underground and was reported to be in the process of closure in 1986. The 1200-gallon tank is above ground; however, the location is unknown. The 3000-gallon tank is located underground.

Ref. Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

24. What is the population within a 4-mile radius of the site?

The population within a 4-mile radius of the site is approximately 141,700.

**Ref. No. 17** 

### FIRE AND EXPLOSION

25. Describe the potential for a fire or explosion to occur with respect to the hazardous substance(s) known or suspected to be present on site. Identify the hazardous substance(s) and the method of storage or containment associated with each.

The potential for a fire or explosion to occur as a result of the hazardous substances stored on site is unknown; however, it is reported that 1,1,1-trichloroethane, Freon, ammonium persulfate, ferric chloride, acetone, ethyl alcohol, chloroform, and oil and dirt are contained in 55-gallon drums. The location of the drums is unknown. It is reported that EPA testing has shown the characteristics of the waste on site to be corrosive and ignitable. A New York State Industrial Waste Management Act form reported that the drums holding ignitable or reactive waste are located at least 50 feet from the property lines and the storage area is inspected weekly; however, the drums "were not grounded" and "No Smoking" signs were not conspicuously placed near ignitable or reactive wastes. The chemical waste storage tank is located 5 feet underground and was reported to be in the process of closure in 1986. The 1200-gallon tank is located above ground; however, the location is unknown. The 3000-gallon tank is located underground. All waste units are reported to be in sound condition.

Ref. Nos. 1, 2

26. What is the population within a 2-mile radius of the hazardous substance(s) at the facility?

The population within a 2-mile radius of the site is approximately 33,900.

Ref. No. 17

### **DIRECT CONTACT/ON-SITE EXPOSURE**

27. Describe the potential for direct contact with hazardous substance(s) stored in any of the waste units on site or deposited in on-site soils. Identify the hazardous substance(s) and the accessibility of the waste unit.

There is little potential for direct contact with hazardous substances stored in the waste units on site. The unspecified corrosive liquid is contained in an underground tank, which was reported to be in the process of closure in 1986. The sludge (metal hydroxide) is contained in an underground double-wall fiberglass tank, and the unspecified waste solvents are contained in an aboveground double-wall fiberglass tank. The wastes contained in the

drums are 1,1,1-trichloroethane, Freon, ammonium persulfate, ferric chloride, acetone, ethyl alcohol, methyl alcohol, chloroform, and oil and dirt. All waste units are reported to be in sound condition.

Ref. Nos. 1, 2

28. How many residents live on a property whose boundaries encompass any part of an area contaminated by the site?

There are no known areas of contamination attributable to the site and no residences in the immediate vicinity.

Ref. Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 18, 19

29. What is the population within a 1-mile radius of the site?

The population within a 1-mile radius of the site is approximately 6,100.

**Ref. No. 17** 

### PART IV: SITE SUMMARY AND RECOMMENDATIONS

The Microwave Power Devices, Inc. Site is located in an industrial/office park area in Hauppauge, Suffolk County, New York. The site is owned by Microwave Power Devices, Inc.; operations began on August 1, 1979. The building covers 35,000 square feet, and the approximate size of the property is 235,000 square feet. The facility is a manufacturer of microwave telecommunication systems. The microwave components are cleaned, plated, and surface treated on site. The plating shop and surface treatment operations produce acid/alkali and chromate rinse waters, which are chemically treated on site. The treated rinse water is either reused or discharged into the privately owned Heartland Sewer system that serves the industrial park area.

The facility filed a notification of hazardous waste activity on November 6, 1980; wastes are accumulated in tanks or containers for less than 90 days. The site includes a chemical waste storage tank that has a reported capacity of between 800 and 880 gallons. It is located outside along the east wall of the Microwave Power Devices, Inc. building, 5 feet underground. The tank is reported to contain unspecified corrosive liquid. The location of the drum storage area is unknown. Drums have been used to store 1,1,1-trichloroethane, Freon, ammonium persulfate, ferric chloride, acetone, ethyl alcohol, methyl alcohol, and oil and dirt. On a 1983 RCRA Inspection Form, it was reported that two new 1000-gallon double-wall fiberglass tanks were to be used to hold the rinse water and sludge that would be generated by a new waste treatment system; however, on a 1986 New York State Industrial Hazardous Waste Management Act Form, it was reported that a 1200-gallon aboveground tank contained spent solvent, and a 3000-gallon underground tank contained sludge (metal hydroxide). Based on this information, it is assumed that the two 1000-gallon tanks alluded to in 1983 are actually the 1200-gallon aboveground tank and the 3000-gallon underground tank. The location of these tanks and the containment methods associated with them are unknown. However, all waste units are reported to be in sound condition. Therefore, a minimal potential for direct contact and for a release of contaminants to the environment is assumed. In the event of a contaminant release, the environmental media of greatest concern would be the underlying soils and groundwater, as the area is strictly dependent on groundwater for all water usage purposes. There are no obvious migration pathways to a natural surface water body.

There are no known enforcement actions pending against Microwave Power Devices, Inc. In 1982, a closure plan was prepared as part of the company's permit requirements; the underground chemical waste storage tank was reported to be in the process of closure in 1986. However, it is unknown whether closure of this waste unit was completed or whether closure of any of the other waste areas described in the plan was ever implemented.

The site is given a recommendation of NO FURTHER REMEDIAL ACTION PLANNED (NFRAP) due to the sound condition of the waste units, the small quantity of wastes stored on site, and the lack of evidence of a release of contaminants to the environment.

ATTACHMENT 1

MICROWAVE POWER DEVICES, INC. HAUPPAUGE, NEW YORK

# **CONTENTS**

Figure 1: Site Location Map Figure 2: Site Map Exhibit A: Photograph Log

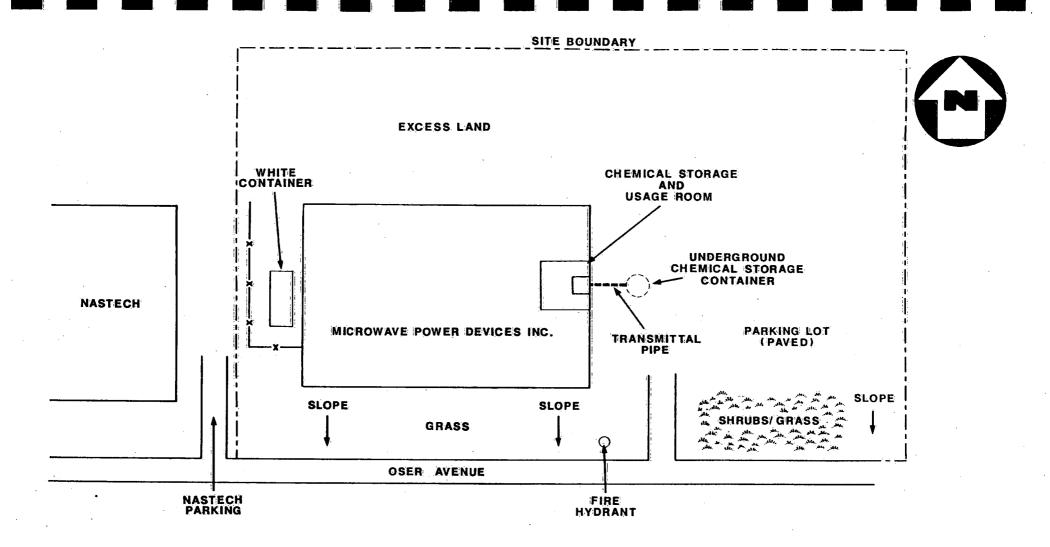
02-8902-07-PA Rev. No. 0 nack Ħ N MWhitman Hollow, GRANDVIEW SENECA INTERCHANGE Substation i ields POAD ack Hills htry Club Valmont Village MICROWAVE POWER DEVICES, INC RCHANGE 43 ROHANGE. BM 143 th Ridge BM118/ INTERCHANGE 53 & S1 INTERCHANGE Water. Tank NEW YORK (QUAD) GREENLAWN, N.Y.

SITE LOCATION MAP

MICROWAVE POWER DEVICES, INC.,
HAUPPAUGE, N.Y.

SCALE: 1'=2000'







NOT TO SCALE



# **EXHIBIT A**

PHOTOGRAPH LOG

MICROWAVE POWER DEVICES INC. HAUPPAUGE, NEW YORK

OFF-SITE RECONNAISSANCE: FEBRUARY 22, 1989

# MICROWAVE POWER DEVICES, INC. HAUPPAUGE, NEW YORK FEBRUARY 22, 1989

# PHOTOGRAPH INDEX

Photo Number	Description	Time
1P-19	Looking at western side of Microwave Power Devices, Inc., showing the fenced area.	1448
1P-20	Looking at eastern side of Microwave Power Devices, Inc., and parking area.	1450
1P-21	Looking at southern side of Microwave Power Devices, Inc., showing the front entrance.	1453
	Photograph 1P-19 was taken by Susan Anderson. Photographs 1P-20 and 1P-21 were taken by Joseph Dvorak.	





MICROWAVE POWER DEVICES, INC. HAUPPAUGE, NEW YORK



1P-21 February 22, 1989
Looking at southern side of Microwave Power Devices, Inc., showing the front entrance.



### MICROWAVE POWER DEVICES, INC. HAUPPAUGE, NEW YORK



1P-19 February 22, 1989
Looking at western side of Microwave Power Devices, Inc., showing the fenced area.



February 22, 1989
Looking at eastern side of Microwave Power Devices, Inc., and parking area.

ATTACHMENT 2

### REFERENCES

- 1. RCRA Inspection Form, Prepared by August LaRuffa of New York State Department of Environmental Conservation, September 16, 1983.
- 2. New York Industrial Hazardous Waste Management Act Inspection Report, Prepared by Tanya Hermos of New York State Department of Environmental Conservation, July 3, 1986.
- 3. Applications for Approval to Construct and Operate Solid Waste Management Facility, June 8, 1982 and April 9, 1980.
- 4. Site Maps of Microwave Power Devices Inc., March 3, 1980.
- 5. New York State Department of Environmental Conservation, Project Permit Requirement Questionnaire for Microwave Power Devices Inc., March 3, 1980.
- 6. U.S. Environmental Protection Agency, Acknowledgement of Notification of Hazardous Waste Activity, EPA Form 8700-12B(4-80), December 22, 1980.
- 7. U.S. Environmental Protection Agency, Notification of Hazardous Waste Activity, EPA Form 8700-12(6-80) November 6, 1980.
- 8. U.S. Environmental Protection Agency, General Information, Consolidated Permits Program, EPA Form 3510-1(6-80), June 16, 1981, and Hazardous Waste Permit Application, EPA Form 3510-3(6-80).
- 9. Memo from J. Josephs, Solid Waste Branch, concerning Hazardous Waste Permit Application, EPA Form 3510-1(6-80), December 16, 1981.
- 10. Letter from Linda Ginsburg, Donnelly Engineering, to Harry Ruisi, Permits Administration Branch, United States Environmental Protection Agency, June 17, 1982.
- 11. Appendix-B to Engineering Report, A Plan For Closure, Prepared by Donnelly Engineering, July 1982.
- 12. Frank, O. L. and N. E. McClymonds. Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water-Management Alternatives. Geological Survey Professional Paper 627-F. United States Department of the Interior, 1972.
- 13. Federal Register Vol. 43, No. 120, pp. 26611 and 26612, Aquifers Underlying Nassau and Suffolk Counties, New York, June 21, 1978.
- 14. Uncontrolled hazardous waste site ranking system, A user's manual, 40 CFR, Part 300, Appendix A, 1986.
- 15. Hydrogeologic Data from Selected Wells and Test Holes in Suffolk County, Long Island, New York, 1972-80, U.S. Geological Survey Open File Report 81-500.
- 16. New York State Department of Health, New York State Atlas of Community Water System Sources, 1982.
- 17. General Sciences Corporation, Graphical Exposure Modeling System (GEMS). Landover, Maryland, 1986.

### REFERENCES (cont'd)

- 18. U.S. Department of the Interior, U.S. Geological Survey Topographic Maps, 7.5 Minute Series: "Greenlawn Quadrangle, New York", 1967, photorevised 1979; "Central Islip Quadrangle, New York", 1967, photorevised 1979.
- 19. Off-Site Reconnaissance Information Reporting Form, Microwave Power Devices Inc., TDD No. 02-8902-07, NUS Corporation Region 2 FIT, Edison, New Jersey, February 22, 1989.
- 20. Letter from Michael S. Scheibel, Senior Wildlife Biologist, New York State Department of Environmental Conservation, to Ms. Diane Trube, NUS Corporation, concerning federally listed endangered species, December 20, 1988.

REFERENCE NO. 1

### RUPA DISPEUT LUI FORM

Report Prepage 1 for		
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listebourer		
HWM (ISD) facility		
Copy of report sent	to the facility / 7	
•		Facility Information
	Name:	MICROWATE POWER DEVICES INC
	Address:	330 OSER AVE
		HAUPPAUGE N.Y. 11788
	EPA ID#:	NTD 04447 0680.
	Late of Inspection:	SEPT 16, 148)
er .		
		Participating Personnel
	State or EPA Personnel:	AUGUST LA RUEFA
		NYSDEC REGI
	Facility Personnel:	MICHAEL CANALIZZARO
	to the second	PLANT ENGINEER
		LLOYD SILVERSTEIN - ASS T CONTIREL
•		, , , , , , , , , , , , , , , , , , ,
	Report Prepared cy Name	The second secon
·	<del></del>	NYSDEC REGI
	<u>Telephone #</u>	:_ (S/() 75/- 7800 -
Appr	roved for the Director by	: James Kled 22

WATE MA KIND DYNY TOLKO

# NOT FUR RELEASE TO COMPANY, PROTECTED INFROMATION

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Summary, Conclusions and Recommendations
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sight of a new words of the treatment
failey which will regele the una water
for reuse, and Two new double will
frongers tenks will held and profe
Muse valu at sluge. Once pu
your the tanks will be chenced and
_iem ovel.
- Busually the liquid waster and
stored in on 800 gellen values to d took
and stripped off site within 90 days.
the falls in the said of the
the following remember:
Personnel Training - 765.16
- Patingercy Plum - 715 Subject D
Part 360 Operating Permit: Is just of that review the stile is required complexing
feel 360 Operating Per met. In just of that
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with 360,8 (c) til wichder Personnel
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### Summary of Findings

# Facility Description and Operations

le communication system. The en inditing process and his plot hie for conquest finishing, Also con Pe ford opper etelig udere Tresently the west a e too fellow underground tenk 11 pump out a note house (chemical management Co) in weter present with will Periodically M refer treatment eving temps are installed but no yet · System queton is planted within 96 days

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_ le Indit	e proces	2 1000	11			
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J 6		- <i>j</i>	The second secon		<del></del> -	
	Const. Company and Const. Co. 12	<del></del>	-	The second second second		
<del></del>	<del></del>			·		
	·			······	<del> </del>	
				,		
dentify the hazard	dous waste <u>l</u>	ocated on	site, and	estimate th	ne approxi	mate
vantities of each	· (Identify	Waste Code	s)			
Conosi	in hirm	il we	des	D007	-1 4	60 sal
	D				•	ý
		or to the second or annual second				
	The second secon		<del></del>			
		<u></u>				
		A substitution of the subs	,			

a. If yes, what leads you to believe it is hazardous waste? Check appropriate boxes:
Company admits that its waste is hazardous during the inspection.
Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application.
The waste material is listed in the regulations as a hazardous waste from a nonspecific source (§261.31)
The waste material is listed in the regulations as a hazardous waste from a specific source (§261.32)
The material or product is listed in the regulations as a discarded commercial chemical product (§261.33)
Testing has shown characteristics of ignitability, corrosivity, reactivity or extraction procedure toxicity, or has revealed hazardous constituents (please attach analysis report)

Company is unsure but there is reason to believe that waste materials

are hazardous. (Explain)

	/			
	Transporter Inspection Report Form	viee	ijΩ.	N: / A
O CER Par	263 Transporter Standards	YES	10	N/A
263.10 -	Does the transporter carry hazardous waste?		_	
263.12 -	Coes the transporter store hazardous waste at a transfer facility - if yes, how long?  10 days or less  more than 10 days (complete 100 form)		<del>- , -</del>	
263.20 -	Manifest System			
1).	Does the transporter have a copy for each manifest shipment of nazardous waste?			
2)	Does a representative portion of the manifests show the following information (if no, circle the missing information)	<u></u>		<del></del>
	o Generator's name, address, telephone and EPA I.D. numbers, signature and date of signature	<del></del>		-
	o Transporter's name, EPA I.D. number, signature and date of signature			-
	o TSDF's name, address and EPA I.D. Number			
	and either the signature and date of the TSDF or the name. SPA I.D., signature and date of the next trans	porter	· <del></del>	<del></del>
	o Manifest Document number			
	o Proper DOT snipping describtion			
	o Quantity & type of containers			
	(If no, to any of the above obtain copies of incomplete	manife	sts).	
3)	Based on available information, do all manifests conform to the hazardous waste shipments made? If no, explain	<del></del>	<del></del>	
252.22 -	Have records been kept since November 19, 1980?			
263.30 -	Has there ever been a spill or discharge of hazardous waste during transportation?		<del></del>	مید: صنع
	If yes, was the incident report submitted to DOT? (obtain copy of the report)			
263.31 -	If there was any spill or discharge of hazardous waste, was it cleaned up? If no. explain.			÷

General Comments:

		3	<u>Æ\$</u>	<u> </u>	<u> </u>
<u>+0</u>	<u>∓</u> ₹	Part 265 Suppart 3 General Pacility Standards			
265	. <b>13</b> -	-Ceneral Waste Aralysis		•	
	1)	Is there a detailed chemical and physical analysis of a representative sample of the waste of each waste? (At a minimum this analysis mist contain all the information necessary for proper management of the waste)			-
	2)	Does the character of the waste hamiled at the facility change from day to day, week to week, etc., thus requiring frequent testing? You may check only one			
		Waste characteristics vary  All waste are basically the same  Company treats all waste as mazardous			
	3)	Is there a written waste analysis plan at the facility?			- —
		Does it contain the following:			
		a) Parameters for each waste to be analyzed and the rationale for the selection of these parameters.	<u></u>	. —	
		b) Test methods used to test these parameters.	_		
		c) Sampling methods to obtain a representative sample of the waste to be analyzed.		·	
		d) Frequency of repeated analysis to ensure accurate and current information.			<u> </u>
	4)	Does hazardous waste come to this facility from an outside source? e.g. another generator.		· —	· —
	5)	If waste comes from an ditaide source, are there procedures in the plan to unsure that waste received conforms to the accompanying manifest?		_	<del></del>
265	i;14-	-Security			
	1-)	Is there: a) a 24-hour surveillance system? or,			
		b) a suitable barrier which empletely surrounds the active portion of this facting?			
	2)	Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility?			
		The no. explain what measures are taken for security.			
265	.15	- General Inspections Requirements			
	1)	Does the facility have a written inspection schedule?			
	2)	Does the schedule identify the types of problems to be looked for and the frequency of inspections?			-
	3)	Does the owner/operator record inspections in a log?	,		
	4)	Is there evidence that problems reported in the inspection log have been remedied?		<i>3</i>	
		If no. please explain.		_	-

265.16 - Personnel Training	vės.	30	S/A
1) Have facility personnel successfully completed a	- 44 9840		
program of classroom instruction of an-the-job training within 6 months of having been amployed?		•	
If yes, have facility personnel taken part in an annual	A	_	_
review of training?			
2) Is there written documentation of the following:			
-job title for each position at the ficility related to hazard waste management and the name of the employee filling each jo	o:s 		
related to hazardous waste management?	_		
-actual training or experience received by personnel?	·		
<ol> <li>Are training records kept on all employees for at least 1 years?</li> </ol>			
265 12-6			
265.17-General Requirements for Iomitable. Reactive or Incompatib	<u>lê</u>		
1) Are there ignitable, reactive or incompatible waste on site?			
If yes, what are the approximate types and quantities and location of the waste.			Tw. Turnsami
		•	
2) Pave precautions been taken to prevent accidental ignition or reaction of ignitable or reactive waste?			<u>,</u>
Lino, please explain.			
3) In your cointon, are proper precautions taken so that these wastes do not:			
penerate extreme heat or pressure, fire or explosion, or violent reaction?			
produce uncontrolled toxic mist. fixes, dusts or cases in sufficient quantities to cose a risk of fire or explosions?			
- damage the structural integrity of the device or famility containing the waste?			
- threaten human health or the environment?	<del></del>		

• • •	r
	•
+0 GR 265 - Suppert 1 - Steparenness and Prevention	<u>1888</u> <u>180</u> <u>187/A</u>
265.32 Does the facility comply with preparedness and prevention requirements uncluding maintaining:	
- an internal communications or alarm system?	· — —
- a telephone or other device to summon emergency assistance from local authorities?	
- portable fire equipment?	
- water at adequate volume and pressure to supply water hose streams, foam producing equipment, etc.	<del></del>
265:33 Is equipment tested and maintainer?	<del></del> <del></del>
265.34 Is there immediate access to communications or alarm systems during handling of hazardous waste?	
265.35 Adequate aisle space?	<del>_</del> <del>_</del> _
If no, please explain storage pattern.	
v	
In your opinion, do the types of waste on site require all of the above procedures, or are some not needed: Explain.	
	-
10 (77) 165 - 0.000 - 0.000	
40 CTR 265 - Subpart D - Contingency Plan and Emergency Procedure	<u>s</u>
Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions or any unplant	ieit.
release of hazardous waste?	-
<ol> <li>Does the plan describe arrangements made with the local authorities?</li> </ol>	
2) Has the commingency plan been submitted to the local authorities?	
<ol> <li>Does the plan list names, addresses and phone numbers of Emergency Coordinators?</li> </ol>	<del></del>
•	
4) Does the plan have a list of what emergency equipment is available?	
5) Is there a provision for evacuating facility personnel?	
6) Was there an emercancy coordinator present or on call ar	<del></del>
the time of the inspection?	<del></del>
40 CFR 265 Subpart E-Manifest System, Recordseeping and Reportant	<u> </u>
265.71 - Use of the Manifest	_
1) Has the facility received hazardous waste from an off-site source since November 19, 1980?	
If no, skip to 265.73 - Operating Record	
	The state of the s
2) If yes, does it appear that the facility has a copy of a manufest for each hazardous waste load received?	
2) If yes, does it appear that the facility has a convert	
2) If yes, does it appear that the facility has a copy of a manufest for each hazardous waste load received?	
2) If yes, does it appear that the facility has a copy of a manufest for each hazardous waste load received?	The state of the s
2) If yes, does it appear that the facility has a copy of a manufest for each hazardous waste load received?	

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်ချိုင်းမှာ နောင် လုံရာ မြေမြို့ပြုသော (၁၂၂) သည် အချောင် (၂၂၂) မောင်ရှိလျှောင် မြေမျှ များကြုံ သို့သို့ (၂၂၂) ၁၈၈၈ ရှိသည် ၁၈၈၈	
<ol> <li>Coes each manifest have the following information? (circle missing information)</li> </ol>	
- a manifest document number?	
= the generators name, mailing address, telephone number and DZA I.D. #?	
- the transporters name and EPA 1.0. Number?	<del></del>
= the TSD name, address, telephone number & EPA InD. Number?	· <del></del>
- a description of the waste (DOT)?	
	<del></del>
- the total quantity of each hazardous waste by first of weight or volume, and the type and number of containers as loaded; into or onto the transport vehicle?	:
a certification that the materials are properly classified, lescribed, packaged, marked and labeled, and are in proper condition for transportation under regulations of the DOT and EPA?	
(Ortain a copy of the incomplete manifests)	
265.72 - Manifest Discrepancies	
Save there been significant discrepancies between the quantity and type of waste received and the waste identified on the manifest?	<del></del>
Describe unreconciled descrepancies.	
265.73 - Operating Record	
1) Does the factualty keep an operating record?	
2) Soes the record contain the following information:	
<ul> <li>a) Description and quantity of Waste on-site and the method(s) and date(s) of its Treatments, Storage &amp; Disposal?</li> </ul>	
b) The location and quantity of each hazardous waste at each location?	
c) Records and results of waste analysis and trial tests performed and identified in the waste analysis plan?	
d) Summary reports and details of all incidents that require implementing the contingency plan.	
e) Records and results of inspections for the past 3 years or November 19, 1980 which ever is less?	
f) Monitoring, testing or analytical data where required for:	
f) Monitoring, testing or analytical data where required for:  Groundwater, Land Treatment, Incinerators, and Thermal Treatment?	
Groundwater, Land Treatment, Incinerators, and Thermal Treatment?	<del></del>
Groundwater, Land Treatment, Incinerators, and	

en <del>e</del> 1 of <u>1,245 o</u> g per om 10 og 10 og <u>pages o</u> for <u>este e</u>	<u>.72</u> _	<u></u>
(Applies only to surface impountments, landfulls and or land treament facilities.)	<u>ız</u> -	
Is a groundwater monitoring plan available at the facility?		
If yes, please fill out the appropriate Ground-ater Monitoring Questionaire and attach to this Fepore.		•
40 GR 265 Subpart G - Cosume and Post-Glosume		
265.111 Closure Performance Standard		
Have any portions of the facility been closed since November 19.		
If yes, please explain		
265.112 - Closuré Plan		
Does the facility have a written closure plan? (Applies to all types of TSD facilities)	<del></del>	-
If yes, does the written plan include:		•
1. A description of how and when the facility will be partially (if applicable) and ultimately closed?		
<ol> <li>An estimate of the maximum inventory of wastes in storage or treatment at any time during the life of the famility?</li> </ol>		· ·
3. A description of the steps necessary to decommunate facility equipment during closure?	- Albert C	
4. A schedule for final closure including the anticipated date when vaste will no longer be received and then final closure will be completed?		
5. Does the owner/operator have a written estimate of of the cost of closing the facility?		-
If yes, what is it? (\$)		_
265.118 - Post Closure Plan		
Does the facility have a written most-closure plan? (Applies only to disposal facilities)		
If yes, Does the Plan:		
1. Identify the activities which will be carried on after closure and the frequency of these activities?		
2. Include a description of planned	<del></del>	
groundwater monitoring activities and their frequency		
<ol> <li>Include a description of planned maintenance activities and frequency to insure integrity of final cover during post-closure?</li> </ol>		
4. Include the name, activess and phone number of a person or office to contact during post-closure?		•
5. Does the owner/operator have a written estimate of the cost of post-closure for the facility?		
If yes, what is it? (\$)	<del></del>	_

Flame intole and appropriate activaties and answer questions on indicated pages for all activaties directed.

Storace	Treatment	Cisposa_	•
Container - pg 5	Tank - pg 7	CARCELLI - 29	11
Tark, abbya grou	nd-og 7 Surface Impounds	ent-pg 8 Land Treatment	- eg 10
Tank, below groun	nd-og 7 Incineration - p	g 12 Surface Impoun	diments - pg 8
Surface Impoundme	ents-og 8 Thermal Treatmen	r- pg 12 Other	· · · · · · · · · · · · · · · · · · ·
Waste Piles - pg	9 Land Treatment -	pg 10	
Other	Chemical, Physic Biological Tread		
40 STR 265 - Supp	Other	· · · · · · · · · · · · · · · · · · ·	YES NO N/A
-			
Describ	pe of containers are used the size, type, quantity 2 fifty-five gallon drum	y and nature of waste	
it is apa			
precipi	e a containment system for tation?	r spills, leaks and	
If yes.	describe.		, :
265.171 - Do the	containers appear to be u	n good condition, not in	·
<u>if me.</u> leaking	please describe the type or corroded containers.	. Condition and number of Se detailed and specific	Ē 3.
265.172 - Are hazi	ardous waste stored in our ls?	mainers made of camparal	
If not,	please explain.	•	
265.173(a) - Are	all containers closed exc	est those in use?	
بر ع	containers appear to be protored in a manner which we had container supporting or	ll minimize the week	
265.174 - Is e	ne storage area inspected	at least weekly?	
~~ ~	containers holding ignital east 50 feet (15 meters) a east/line?	away from the facility's	xated .
265.177 - Are i	remparible wastes stored?	l separate from each	
If no	o, explain	-	

	40 CFR 265	Substant 3 - Tanks	<u> </u>	<u>α:</u>	<u>N/A</u>	
	265.190 1)	What are the approximate number and size of tanks containing hazardous waste?			_	
	2)	Identify the waste treated/stored in each tank.				
	265.192 - 9	eneral Operating Requirements	·			
		Are the tarks maintained so that there is no evidence of past, present, or risk of future leaks?			_	
		If no. please explain.				
	2)	Are there leaking tanks?			·	
·	•	Are all hazardous wastes or treatment reagents being placed in tarks compatible with the tark material so that there is no danger of suprures, corresion, leaks or other failures?			_	
	4) :	Do uncovered tanks have at least 2 feet of freeward of an adequate containment structure?		_		
		If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank? e.g. bypass system to a standby tank		·	<del></del> .	
	265.194 -	Inspections				
	1)	Is the tark(s) inspected each operating day for a, discharge control equipment b) monitoring equipment c) level of waste in tark		_		
·	:	Are the tarks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures?				
	3) 4	Are there underground tanks?		_		
	,	If yes, how many and can they be emered for inspection?				
	265.198 - Ar wh	re ignitable on reactive wastes stored in a marner wich protects them from a source of ignition or reaction	n?	<del></del>		
	Ľ	no, please explain.				
	265.199 - Do	es it appear that incompatible wastes are being stored parate from each other?			•	•
·	•		••		L THE SAME	
	•	·				

265.230 - Are incompatible wastes placed in the impoundment?

If yes, explain.

40 CR 265 Subcar L - Waste Files	<u></u>	30 3
265.250 - How many waste piles are on-site and approximately How large are they? (Please indicate size and height and Typ wastes in piles.)	es of∈	
265.251 - Is the waste pile protected from wind emsion?  a) Does it appear to need such protection?  b) Explain what type of protection does exist.		<del></del>
265.253 Contairment,		
1) Is leachate run-off from the waste piles a hazardous waste? If no. skip down to 265.256.	<del></del>	·
2) Is the pile placed on an impermeable base?		
3) Is run-on diverted away from the pile?		<del>-</del>
4) Is the leachate and nun-off collected and treated?		·
If no to any of the above questions above them:  5) Is the pile protected from precipitation and		
6) Are wastes commanding free liquids placed in the pile?		
265.256 - 1) Are ignitable or reactive wastes placed on the pile?  If no, skip to \$265.257		
2) Is the ignitable or reactive waste added to existing pile resulting in it no longer meeting the definition of ignitable and reactive? If no, explain.	<del></del>	· <del></del>
3) Is the waste protected from any materials or condition that may cause it to ignite or react?  If no, explain.		
265.257 - Does it appear that a pile of incompanible wastes is being stored separate from other wastes or materials, or protected from them by means of a dike, berm, wall or other device? If no, explain.	<del>-</del>	

#### 40 CFR 265 Subpart M - Land Treatment

265.270	- Identify the types of waste and the size of the land tr	84 C72	nt ari	ea?
265.272	- General Operating Requirements	<u>:::::</u>	<u>230</u>	N/A
	<ol> <li>Can the facility operator demonstrate that the hazardous waste has been made less or non-hazardous by biological degradation or chemical reactions occurring in or on the soil?</li> </ol>			
	Please explain how.			
•	2) Is run-on diverted from the active portions of the land treatment facility?			-
	3) Is run-off from the active portions of the facility collected?			"AAAAA STIIIA
	If yes, is the run-off a hazardous waste?	<u> </u>		
265.276 -	Food Chain Crops			
	<ol> <li>Are food chain crops being grown on the facility property?</li> <li>If yes, can the facility operator document that area lead and mercury:</li> </ol>	nic.	<del></del>	<u>.</u>
	- will not be transferred to the crop of ingested by food-crain animals or	_		
	<ul> <li>will not occur in greater dincentrations in the crops grown on the land treatment facility than in the same crops grown on the untreated soils.</li> </ul>			
	2) Has notification of the growing of food chain crops been made to the Regional Administrator?	_	_	
265.278 -	is there a written and implemented plan for unsaturated zone monitoring?		<u> </u>	
	Make copy for office feview.			
.65.27 <b>9 -</b>	Are there records of the application dates, application rates, quantities and location of each hazardous waste placed at the famility?	<u> </u>		
65.281 -	Is ignitiable or reactive waste immediately incorporated into the soil so that the resulting waste no longer need that definition?	8		
	If not, please explain.		********	
65.282 -	Are incompatible waste placed in separate land treatment areas?			
	If no, please explain.	<del></del>	<del></del>	

265.300	dentify the types of waste and size of the landfill.		
265.302	- General Operating Requirements		
1	) Is num-on diverted away from the active portions of the landfill?		<u>-</u>
2	) Is run-off from active portions of the landfill collected?		
.3.	) Is waste which is subject to wind dispersal controlled?		<u>.</u>
	Please explain how.		
265.309	- Does the owner/operator maintain a map with:		
Ţ	) The exact location and dimensions of each cell?	<del></del>	
2	) The contents of each cell and approximate location of each hazardous waste type?		
265.312	- Is ignitable or reactive waste treated so that it is not ignitable or reactive before being place in the landfill?	<u></u>	
	Emplain how you know.	•	
265.313	- Are precautions taken to ensure that incompatible waste are not placed in the same landfill cell?		<del></del>
	If no. please explain.		
265.314	Special Requirements for Liquid Waste		
1)	Are bulk or non-containerized wastes containing free liquids placed in the landfill?	<del></del>	_
	If yes,		
	a) Does the landfill have a liner which is chemically and physically resistant to the added liquid? Or		<u> </u>
	b) Is the waste treated and stabilized so that free liquids are no longer present?		تنته
2)	Are containers holding liquid waste or waste containing free liquids placed in the landfill?	<u></u>	<u> </u>
	Please describe the types and contents of such containers placed in the landfill.		
	•	•	
265.315	- Are empty containers placed in the landfill crished flat, shredded or similarly reduced in volume before they are biried ?		. <u>-</u>
265.316	- Are small containers of hazardous waste in overpacked drums placed in the landfill?		<u>,                                      </u>
	If yes, please describe precautions taken to prevent to of the waste.	he release	

ನೇತಿತ ಸರ್ಕಾರ್ ಬ್ಯಾಪ್ ನಡೆಯ ರಾಜ್ಯಾಗಿಯ ಸ್ಥಾಪ್ ಸ್ಟ್ರೀನ್ ಸ್ಟ್ರೀನ್ ನಿರ್ವಹಿಸುತ್ತಿದ್ದರು. ಕೃತ್ತಿ ತನ್ನ ಶಾಸ್ತ್ರಿ ಆರಂಭ ಸಂಸ್ಥೆಯ ತನ್ನ ಚಿತ್ರಾ ವಿಚಿತ್ರವಾಗಿ ಚಿಕ್ಕು ಕಿಲ್ಲಾ

	3) List the Types and quantities of HW incinerated or thems	lly weated.
	3) Is the residue from the incinerator thermal treatment in hazardous waste?	5 a
	4) What types of air pollution control devices (if any) are installed in the indinerator/or thermal treatment unit?	
	5) Is energy recovered from the process? If yes, describe.	<del></del>
	6) What is the destruction and removal efficieny for the organic hazardous waste constituents?	
265.341 acd 265.375	- Des the operating record include additional analysis' to determine types of pollutants which might be emitted in	cluding:
	- heating value of the waste?	
	- halogen and sulfur content?	<del></del> <del></del> -
		<del></del>
	- concentrations of lead and mercury?	·
	If no to any of the above questions is there justification and documentation?	
265.345 and 265.373	if operating, does it appear the incinerator/or thermal treatment that is operating at steady state for oun-ditions of operation, including temperature and air flow?	
265.347	- Monitoring and inspection	
and 265.377	1) Are existing instruments relating to combistion and emission controls monitored every 15 minutes?	
	If no, explain	
	2) Does the incinerator/thermal treatment have all the following instruments for measuring: wastefeed, auxiliary fiel feed air flow, incinerator temperature scrubber flow, and scrubber ph? (Circle missing instruments)	
	If no, explain.	
	Is the stack plume observed visually at least hourly for eacity and color?	
	<ol> <li>Are there any signs of leaks, spill and fugitive emissions associated with the pumps, valves, conveyors, pipes etc? If yes, describe.</li> </ol>	
	5) Are all emergency shutdown controls and system alarms checked to assure proper operation?	
÷	6) Is there any reason to believe the incinerator is being operated improperly? i.e., steady state conditions are not maintained. If yes, explain.	
	A CONTRACTOR OF THE PROPERTY O	

7) Is the incinerator/thermal treatment inspected daily?

ment process?

If yes, please explain.

. . . . \_

# GENERACOR ENSPECTION CONCLES

40 CR 262 Subpart A-General	? <u>?</u> 25	370	N//
262.11 - Hazardous waste determination	-	_	
<ol> <li>Did the generator test its waste to determine whether it is hazardous?</li> </ol>		/	/
Is the waste hazardous?			
2) is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?			
40 CFR 262 Subpart 8-The Manifest			
Has hazardous waste been shipped off-site since lovember 19 1980?			
if yes, approximately how many shipments, off-site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain.			
262.21 Does each manifest (or representative sample) have the follow information? Please circle the missing elements.	ing		
- a manifest document number?	<u> </u>		
the generators name, mailing address, telephone number and EPA 1.D. Number?			
- the transporters name and SPA I.D. Number?			
- The name, address and DA ID Number of the designated facility?	$\leq$	<u>.</u> _	
a description of the wastes (DT)?			
or volume, and the type and number of containers as loaded into or onto the transport vehicle?	·		
a certification that the materials are properly classified, described, package, marked and labeled, and are in proper condition for transportation under regulations of the DOT and SPA?	/		_
(obtain a copy of the incomplete manifests)	<u> </u>		_
40 CR 262 - Subpart D - Recordkeeping and Reporting		,	
262.40 Has the generator maintained facility records since Nov. 19. 19607 (manifest, exception feport and waste analysis)			
252.42 Has the generator received signed copies (from the TSD facility of all the manifests for weste shipped off-site more than 35 days ago?	الا		
If not, have Exception Reports been submitted to EPA covering any of these shipments made more than 45 days ago?			

40 그로 252 -	Subpart C - Pretrategoriation Requirements	<u> </u>
262,30-33 3ef	fore transporting or offering hazardous waste for transportation from the persentation of the forest transportation of the forest tr	1 xaylı
Ž	) label each package according to DOT (i.e., 49 CTR 172)	
31	) Mark each package according to OOT (i.e., 49 CTR 172)	
4)	) Mark each container of 110 fallons or less with the words "Mazarbus Waste - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. EPA," and include the generator name, address and manufest document names. (i.e., 49 CR 172,304)	·
262.34 <u>Accamu</u>	ulation Time	
1)	) How is waste accumulated on-size?	
	Containers	
	Tacks	
	Surface impoundments (complete SAF checklist)	
	Piles (complete SMF checklist)	/
2)	is waste accumulated for more than 90 days?	$\sqrt{}$
	If yes, complete SAT checklist	
3)	is each container clearly dated with each period of accomplantion so as to be visible for inspection?	
4)	is each container or tank marked or labeled with the words "hazardous waste" or is compliance with the DOT labeling requirements?	

STOP HERE IF THE HAZARDOUS WASTE MGT FACILITY (TSD) CHECKLIST IS FILLED OUT

## \$52, 34 - SHOPE TERM ACCUMILATION STANDARDS

For panerators who accumulate wasta in tanks or containers for 90 days or less)

	S - Subpart I Containers  What type of containers are used for storage. Describe the size, type and quantity and nature of waste (e.g., 12 fifty-pallon drums of waste scenare).		3 <u>0</u>	M <u>∕A</u>
265.171 -	So the containers appear to be the good condition, not in danger of leaking?			
	If not, please describe the type, condition and number of leaking or controded containers. Se detailed and specific.			
265.172 -	Are hazardous waste stored in containers made of compatible materials?			<u> </u>
	25 not. please explain.	-	·	
265.173(a)	- Are all containers closed except those in use?		<del></del> -	<u>_</u>
265.173(5)	- To commainers appear to be properly opened, randled or stored in a manner which will maintage the risk of the container suppliining or leaking?			_/
265-174 -	is the storage area inspected at least weekly?			
265.176 -			ئے۔ ۔۔	
265.177 -	Are incompatible wasts stored separate from each other?	<del></del>	_ <u> </u>	7

		<u> </u>
t .	40 CTR 255 Supplies 3 - Tanks	
	265.190 1) What are the approximate number and size of tanks containing hazardous asse?  2) Identify the waste treated/stored in each tank.	
	conside hand	
	265.192 - General Operating Requirements	/
	<ol> <li>Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?</li> </ol>	<u> </u>
	If no, please explain.	•
		- <del>-</del>
	2) Are there leaking tanks?	
• .	3) Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger of furtures, compation, leaks or other failures?	<u></u>
	4) Do uncovered tanks have at least 2 feet of freeboard of an adequate containment structure?	
	5) If waste is continuously fed into a tank, as the tank equipped with a means to stop the inflow from the tank e.g. bypass system to a standby tank	
	265.194 - <u>inspectators</u>	
e e e	1) Is the tank(s) inspected each operating day for a) discrarge control equipment b) monitoring equipment c) level of waste in tank (welchly)	$\frac{\checkmark}{2} = =$
	2) Are the tanks and surrounding areas (e.g., dike) inspected weekly for laws, corrosion or other failures?	<u> </u>
	3) Are there underground tanks?	<u> </u>
	If yes, how many and can they be entered for inspection? one - 800 yellow	<u> </u>
	265.198 - Are imitable or reactive wastes stored in a warner which proveds them from a source of imition or reacti	in?
	if no, please explain.	
	265.199 - Des it appear that incompatible -astes are being store separate from each other?	<b>s</b> ei

s

A.

265.16 - Personnel Traumum	
<ol> <li>Have facility personnel successfully completed a program of classroom unstruction or on-the-joc training within 6 months of naving been employed?</li> </ol>	<u> </u>
<pre>If yes, have facility personnel taken part in an annual     review of training?</pre>	<u></u>
2) Is there written documentation of the following:	
—job title for each position at the facility related to hazardo waste management and the name of the employee filling each job	2
— type and amount of training to se given to sersonnel in jobs related to nazardous waste management?	
-actual training or experience received by personnel?	
3) Are craining records kept on all employees for at least 3 years?	
40 CFR 265 - Subpart C - Preparedness and Prevention	
265.32 Does the facility comply with preparedness and prevention requirements including maintaining:	
- in internal communications or alarm system?	<del>_</del>
— a telephone or other device to summon emergency assistance from local authorities?	<u> </u>
- portable fire squipment?	<del>*</del>
- water at dequate volume and pressure to supply water hose streams, foam producing equipment, etc.	J
265.33 Is equipment tested and maintained?	<u> </u>
265 .34 is there unmediate access to communications or <u>warm</u> systems during namiling of hazardous waste?	<u></u>
265.35 Adequate angle space?	<u> </u>
If m, please explain storage pattern.	
In your opinion, do the types of waste on-site require all of the above procedures, or are some not needed: Explain.	<u></u>
40 CFR 265 - Suppart D - Continuency Plan and Dremency Procedure	<u>=</u>
ones the facility have a written contingency plan for entrement, procedures designed to deal with fires, explosions or any emplant release of hazardous waste?	= _ <u>_</u> _
<ol> <li>Does the plan describe arrangements made with the local authorities?</li> </ol>	
2) Has the contingency plan been summitted to the local authorities?	
<ol> <li>Does the plan list names, addresses and phone numbers of Emergency Coordinators?</li> </ol>	<u> </u>
4) Does the plan have a list of what emergency equipment is available?	·
5) Is there a provision for evacuating facility personnel?	
6) Was there an emergency coordinator present or of call at the time of the inspection?	

REFERENCE NO. 2

REGION:	•
KEGI ON.	
Major:	
Non-Major:	

# NEW YORK STATE INDUSTRIAL HAZARDOUS WASTE MANAGEMENT ACT

(Chapter 639, Laws of 1978)

## Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste Norman H. Nosenchuck, Director

Send to: Compliance Inspection Section 50 Wolf Road - Room 207/415

Albany, New York 12233	
EPA I.D. NUMBER: NYD 7	4447037
*HANDLER'S NAME (Corporate): (Division):	Marines Power Decines Inc.
*HANDLER'S MAILING ADDRESS:	330 Open Ave
City & State	Haupanace , NY Zip Code 11758
*HANDLER'S LOCATION ADDRESS:  (if different than mailing)  City & State	Zip Code
*HANDLER'S TELEPHONE NUMBER:	(516) 2.31 - 1 - 17 Extension
*FULL NAME OF HANDLER'S CONTACT: *SIGNATURE OF HANDLER'S CONTACT:	Team to when Monaden in thus to take the
(This signature is not an admitt acknowledges that an inspection	cance to any violations cited herein. It merely took place.)
*TITLE OF HANDLER'S CONTACT:	
INSPECTION DATE: 5 5	TIME OF INSPECTION:  E/A NUMBER: 47 3 4 0
INSPECTOR'S NAME: TITLE:  NAME: TITLE:	ARS TAN FORMANA DESC LOSCOCECE
CHECK ONE: Copy of THIS report	( has) ( has not) been given to the Handler.
REPORT PREPARED BY: REPORT APPROVED BY:	DATE: 7/3/86 DATE: 7/3/86

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<sup>\*</sup> For the purpose of this Inspection Report - HANDLER means a hazardous waste Generator, Transporter, Storage or Disposal Facility (TSDF).

#### New York State Department of Environmental Conservation Division of Solid and Hazardous Waste 50 Wolf Road, Albany, New York 12233

#### PART I

# General Information and Classification of Facility

1.	Ide	ntificatio	n of Hazardous Waste - 371 Yes No
	Α.	hazardoùs yoù to be appropria	reason to believe the facility has waste on-site? If yes, what leads
		(1) <u>×</u>	Company recognizes that its waste is hazardous during the inspection.
		(2) <u>X</u>	Company admitted the waste is hazardous in its RCRA notification and/or Part A permit application.
		(3) 🔀	EPA testing has shown characteristics of: (×) ignitability - 371.3(b); (×) corrosivity - 371.3(c); ( ) reactivity - 371.3(d); ( ) EP toxicity - 371.3(e)
	,	<del></del>	Has revealed hazardous constituents (please attach analysis report) 371.4(a)(2), Appendix 22, Appendix 23
	•	(4) <u>×</u>	The material is listed in the regulations as a hazardous waste from non-specific sources 371.4(b).
		(5)	The waste material is listed in the regulations as a hazardous waste from specific sources. 371.3(c).
		(6) _<	The material or product is listed in the regulations as discarded commercial chemical products, off-specification species, container residues and spill residues thereof. 371.4(d)
		(7)	Company is unsure, but they have reason to believe that waste materials are hazardous. (Explain)
		(8)	If don't know, please explain:

	other environmental permits are held by the company, relutive dous waste management?
	SPDES Permit Number X Air Permit Number
	Part 364 Industrial Waste Transporter Permit (indicate this copany's permit number if any)
addre	se describe other relavent (if any) permits and give the name, ess, Part 364 Permit Number and EPA I.D. Number of transporter(by company.
Pride	Solvents & Chemical Co Inc. Deside 7722268
200	Linua di Conte Resourch Papa - Ny Matasa 92 207
<u>R (3 14</u>	1 Light of 18 Removal Prop Nation 924334
Tecl Their	ne facility is a treatment, storage or disposal facility, have  Submitted a Part A application Have changes been made t
Tecl Their	Submitted a Part A application.  Have changes been made to are not reflected in the Part A application? Should the Part
Tecl Their	Submitted a Part A application.  Have changes been made to are not reflected in the Part A application? Should the Part
Tecl Their	Submitted a Part A application.  Have changes been made to are not reflected in the Part A application? Should the Part
Tecl Their	Submitted a Part A application.  Have changes been made to are not reflected in the Part A application? Should the Part
Tecl Their	Submitted a Part A application.  Have changes been made to are not reflected in the Part A application? Should the Part
Tecl Cher If th	Submitted a Part A application Have changes been made to are not reflected in the Part A application? Should the Part be modified by the Company? If so, explain.
Ted Tree If the	Submitted a Part B application.  Submitted a Part B application.  Submitted a Part B application.
Ted Tree If the	Submitted a Part A application Have changes been made to are not reflected in the Part A application? Should the Part be modified by the Company? If so, explain.

,	Describe the activities that result in the generation of hazardous	
	waste. Include the company's manufacturing processes.	
	Facility manufactures is income telescommunication in inches	
	PC Bram copper atom acq in done. Electronic Assembly	
	and the disemperating of aluminum parts - aka takes	
	place at the facility.	
	O Company of the comp	
•	Identify the hazardous wastes that are on-site and the quantity of each (use the identification numbers referred to in Part 371).	
•	[wse the identification numbers referred to in Part 3/1)  From - 1 1 1 - trichlescettesse Freez (to -55 galin drims)	
•	(use the identification numbers referred to in Part 3/1).	
•	[cot - 1 1 1 - torchiocoetiacoe Frence (the -55 galin dome)  Cook - Emmenium Persulace Frence (the -55 galin dome)	`U.?^
•	(use the identification numbers referred to in Part 3/1).  FOOT - 1 1 1 - torchhoocethoope Freen (the -55 galin doms)  COOR - Emmonium Persulfate Ferre Chinarde (2-55ac) do  Esca - Enst-no. Eth   Alamah Main   Black of (2-55ac) och	`U.?^
•	(use the identification numbers referred to in Part 3/1).  FOOT - 1 1 1 - total Location per Freeze (the - 55 galin doms)  COOR - 12 mmon um Persulfate Ferre (though a 12-55 galin doms)  FOOR - 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	`U.?^
•	(use the identification numbers referred to in Part 3/1).  FOOT - 1 1 1 - torchhoocethoope Freen (the -55 galin doms)  COOR - Emmonium Persulfate Ferre Chinarde (2-55ac) do  Esca - Enst-no. Eth   Alamah Main   Black of (2-55ac) och	`U.?^
•	(use the identification numbers referred to in Part 3/1).  FOOT - 1 1 1 - total Location per Freeze (the - 55 galin doms)  COOR - 12 mmon um Persulfate Ferre (though a 12-55 galin doms)  FOOR - 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	`U.?^
•	(use the identification numbers referred to in Part 3/1).  FOOT - 1 1 1 - total Location per Freeze (the - 55 galin doms)  COOR - 12 mmon um Persulfate Ferre (though a 12-55 galin doms)  FOOR - 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	`U.?^
•	(use the identification numbers referred to in Part 3/1).  FOOT - 1 1 1 - total Location per Freeze (the - 55 galin doms)  COOR - 12 mmon um Persulfate Ferre (though a 12-55 galin doms)  FOOR - 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	`U.?^
•	(use the identification numbers referred to in Part 3/1).  FOOT - 1 1 1 - total Location per Freeze (the - 55 galin doms)  COOR - 12 mmon um Persulfate Ferre (though a 12-55 galin doms)  FOOR - 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	`U.?^
·	(use the identification numbers referred to in Part 3/1).  FOOT - 1 1 1 - total Location per Freeze (the - 55 galin doms)  COOR - 12 mmon um Persulfate Ferre (though a 12-55 galin doms)  FOOR - 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	`U.?^
	[mot - 1 1 1 - Local concerts on a Freen (the -55 gallen dome)  Cons - Common um Persuface Free (the one (2-55 gallen dome)  Cons - Control Eth   Alamah Main   Blankal (2-55 gallen dome)  Cons - Control Common (2-55 gallen dome)  Eth one of Control Common (2-55 gallen dome)	`U.?^

No Been granted a hazardous waste Part B permit.

	or DEC officially modified the handlers status? If so, attach ondence. No.
Status Iden	tification:
This handle considering	r should be inspected as a (check each appropriate category after exemptions)
A. <u>\//</u> \/ Tr	ansporter - complete Appendix B
B. Generat	or Status Identification 372.1
1.	Category 1 generator - small quantity generator - generates less than 100 kg/mo and stores less than 100 kg. = 372.1(e)(1)i - Complete Part II, 1A.
2	Category 2 generator - small quantity generator - generates less than 100 kg/mo and stores more than 100 kg but less than 1,000 kg 372.1(e)(1)ii - Complete Part II, 1B.
3	Category 3 generator - small quantity generator - generates more than 100 kg/mo but less than 1,000 kg/mo and stores less than 1,000 kg 372.1(e)(1)iii - Complete Part II, 18 and 1C.
4	Category 4 generator = small quantity generator containing less than = (372.1(e)(1)(iv)) = Complete Part II, 1A.
	(a) A total of one kilogram of all commercial product or manufacturing chemical intermediate having the generic name listed in paragraph 371.4(d)5.
	(b) A total of one kilogram of any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraph 371.4(d)5.
	(c) Any containers identified in paragraph 371.4(d)(3) of this title that are larger than 20 liters in capacity.
	(d) A total of 10 kilograms of inner liner from containers identified in paragraph 371.4(d)(3) of this title.
	(e) One hundred (100) kilograms of any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any commercial chemical product, off-specification product, or manufacturing chemical intermediate having the generic name listed in paragraph 371.4(d)5 of this title.

- 5. Category 5 generator generated 1,000 kilograms or more per month Complete Part II. Generators in Kings, Queens, Nassau and Suffolk Counties also complete Appendix A.
- 6. Category 6 generator stores 1,000 kilograms or more Complete Part II. Generators in Kings, Queens, Nassau and Suffolk Counties also complete Appendix A.

#### C. Treatment, Storage or Disposal Facility Status

- 1. Is hazardous waste generated and stored on-site? If so:
  - (a) No. Has hazardous waste been stored on-site longer than 90 days? 373-1.1(d)(1)(iii) If yes, complete Appendix A.
  - (b) Has more than 8,800 gallons of hazardous waste been stored in containers? 373=1.1(d)(ii)(a) If yes, complete Appendix A.
  - (c) Has more than 20,000 gallons of hazardous waste been stored in tanks? 373-1.1(d)(iii)(b) If yes, complete Appendix A.
- 2. Hazardous waste received from off-site and not beneficially used, reused or legitimately recycled or stored. If yes, complete Appendix A.
- 3. Yes Hazardous waste is treated on-site.
- 4. No Hazardous waste is disposed of on-site.

#### 3. Exemptions

If the handler is inspected other than as they notified (e.g., notified as generator/TSD - inspected as exempt generator) a full explaination should be included in Part III.

#### A. Generator Exemptions

- (1) Not a regulated handler (be sure to indicate why in Part I IF and 1G and/or in appropriate exemption below for example the company notified for presautionary reasons or the waste generated is not hazardous as specified in 371.1(e)(2).
- Delisted hazardous waste. IDENTIFY the waste that was delisted: (If the company is in the delisting process they are still regulated until their delisting petition is favorably approved) Complete appropriate parts depending on company status.

<sup>(3)</sup> 112 Exemption for used engine lubricating oil. 372.1(e)(8) -

- Exemption for farmers. 372.1(e)(3). Only if he triple rinses each emptied pesticide container in accordance with paragraph 372.1(e)(3)(i), and disposes of the pesticide residues on his own farm in a manner consistent with Section 325.4(d) of this title or in a manner consistent with the disposal instructions on the pesticide label, whichever is more restrictive.
- (5) Exemption for publicly owned treatment works 372.1(e)(4).
- (6) +12 Samples collected for testing. 372.1(e)(5).
- (7) 1.62 Residues of hazardous waste in empty containers. 372.1(e)(6).
- A hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated non-waste treatment manufacturing unit is not subject to regulation until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials. 372.1(e)(7).
- (9) Alia Mixed with non-hazardous waste is exempt only if unregulated quantity is mixed and the resulting mixture does not fail a characteristic test 372.1(e)(1)(v).
- B. TSD Exemptions X SEE Attachment # 1
  - 1.  $\overline{\text{TSD}}$  exemptions = 373-1.1(d)(1) (for facilities and operations that manage hazardous waste other than waste oil)
    - (a) The disposal of waste pesticides on a farm by the farmer who generated them if the container or inner liner has been triple rinsed or the inner liner has been removed and the disposal method is proper = 373-1.1(d)(1)(ii); 372.1(e)(3).
    - (b) (4)/A Storage of characteristic hazardous waste other than sludge prior to its beneficial use or reuse or legitimate recycling or reclamation. Any off-site facility which stores hazardous waste destined for energy recovery must obtain an EPA identification number. 373-1.1(d)(1)(vi). If yes, complete Part II, 2, 3C, 3D.
    - (c)  $\frac{N \cdot A}{r}$  Beneficial use or reuse or legitmate recycling or reclamation of a characteristic hazardous waste other than sludge. (373-1.1(d)(1)(vii))
    - (d) A Beneficial use or reuse or legitimate recycling or reclamation of a listed hazardous waste or hazardous waste sludge other than at commercial facilities. Any off-site facility must have an EPA identification number. (373-1.1(d)(1)(viii))

- (e) The treatment of characteristic hazardous waste other than sludge prior to its beneficial use or reuse or legitimate recycling or reclamation. 373-1.1(d)(1)(ix).
- The treatment of a listed hazardous waste or hazardous waste sludge prior to its beneficial use or result or legitimate recycling or reclaimation other than at commercial facilities.

  Any off-site facility must have an EPA identification number.

  (373-1.1(d)(1)(x))
- (g) NA Totally enclosed treatment facility (373-1.1(d)(1)(xi))
- (h) Elementary neutralization units or wastewater treatment units other than units located at commercial facilities. If yes, complete Part II, 2, 3C, 3d, 5, 6, 7. (373-1.1(d)(1)(xii))
- (i) t A wastewater treatment facility holding a SPDES Permit for a surface water point source discharge reuses spent pickle liquor or facilities that accumulate, store or physically, chemically or biologically treat spent pickle liquor prior to reuse in a wastewater treatment facility. (373-1.1(d)(1)(xvi))
- (j) the addition of absorbent material with the purpose of preparing the waste for incineration or to fill void spaces in containers intended for land disposal. If yes, complete Part II 3.C.2, 3.C.3, 3.C.8. (373-1.1(d)(1)(xvii))
- 2. TSD exemptions 373.1.1 (d)(2) (for facilities and operations that manage waste oils)
  - (a) Storage or treatment of waste oil generated on-site prior to its beneficial use or resue or legitimate recycling or reclamation if the waste oil is not a listed hazardous waste, and the waste oil is not a hazardous sludge. 373-1.1(d)(2)(ii). If yes, complete Part II: 2, 3C, 3D, 5, 6, 7.
  - (b) CAT Exemptions for storage of waste oil at an energy recovery facility prior to its on-site combustion of such waste oils are not listed hazardous wastes, waste oils are not hazardous sludges, and the facility stored less than 80,000 gallons of waste oil. 373-1.1(d)(2)(iii). If yes, complete Part II: 2, 3C, 3D, 5, 6, 7.
  - (c) N/A Combustion units that recover energy from waste oil, other than listed hazardous waste and sludges and the related treatment on-site of such combustion units.
- 3. TSD exemptions (for facilities and operations that manage hazardous waste or waste oils).

- (a) NAL Storage of hazardous waste generated and stored on-site for 90 days or less and 8,300 gallons or less is stored in containers or 20,000 gallons or less is stored in tanks. The facility can not be located in a geographical area overlying a sole source aquifer. If yes, complete Part II, 2A, 3C, 3D. 373=1.1(d)(1)(iii).
- Storage or treatment of hazardous waste on-site of generation if generated and stored less than 1,000 kilograms of hazardous waste in each calendar month and do not generate or store acute hazardous waste as described in 373-1.1(d)(1)(i)(b).
- (c)  $\frac{1}{100}$  Treatment or containment activities during an immediate response 373=1.1(d)(1)(xiii).
- (d)  $\frac{110}{1-5}$  Accumulation areas. If yes, complete Part II: 3C, questions 1-5. 373-1.1(d)(1)(xiv).
- (e) No Storage of manifested shipments of hazardous waste in containers or vehicles by a transporter at its own transfer facitity for 5 days or less. If yes, complete Appendix B: 3. 373-1.1(d)(1)(xv).
- 4. Environmental Facilities Corporation (EFC) Survey

#### The following questions are voluntary:

The Environmental Facilities Corporation (EFC) is actively involved in the industrial materials recycling program, and these questions will assist EFC in carrying out this program. It may also be beneficial to the facility being inspected in that acceptable markets or more economical alternatives to the facility's current disposal techniques may be brought to their attention.

A. Does the company believe their hazardous waste has the potential for recovery, reclamation or exchange with other companies to minimize disposal costs? X Yes No Don't Know

#### If yes:

- B. Does the company wish to list their waste stream in the Northeast Industrial Waste Exchange Listings Catalog? X Yes No Don't Know
- C. Does the company want to receive additional information about the potential for waste exchange? <a href="x">x</a> Yes \_\_\_\_No \_\_\_Don't Know
- D. Does the company wish to obtain assistance from the New York State Environmental Facilities Corporation to assess the potential for recovery, reclamation or exchange of the hazardous waste stream?

  × Yes No Don't Know

The Company representative may wish to contact Mr. Pickett Simpson, Hazardous Waste Program Manager, Environmental Facilities Corporation, 50 Wolf Road, Room 527, Albany, New York 12233 at (518) 457-4138.

#### New York State Department of Environmental Conservation Division of Solid and Hazardous Waste Bureau of Hazardous Waste Operations 50 Wolf Road, Albany, New York 12233

#### Part II

#### Generator Inspection Section

nd	icat		Ind	licate:	
	X V	iolations	X NA	Satisfacto Not Appl	
١.	Req	uirements for Category 1-4 Generators:			
	Ref	er to questions based upon category checked in Part	I.		
	If req	in Part I an exemption applies, inspection is comple uirements for the generator category are met.	ete	if the	AIN
	Α.	If Category 1 and 4 generators or generators exemptused engine lubricating oil, has met the following	: f	or	
		disposed in a solid waste facility - 372.1(e)	(1)	(i)( <u>b)</u>	HILL
		made à hazardous waste determination - 372.1(	<b>≘</b> ) (	1)(i)( <u>a</u> )	11/12
	В.	If Category 2 and 3 generators has met the following	nğ:		
		made a hazardous waste determination = 372.1(	e)(	1)(ii)( <u>a</u> )	<u> 1111</u>
		disposed of in authorized hazardous waste fac $372.1(e)(1)(ii)(b)$	ili	tý -	Alla
		submitted document justifying exemption - 372	.1(	e)(1)(ii)( <u>c</u>	<u>:) [] []                                </u>
		used appropriate containers; properly package marked during storage and shipment = 372.1(e)	d, (1)	labeled and (ii)( <u>d</u> )	d <u>i'lii</u>
		had containers and tanks stored properly; not handled or stored in a way which may cause it inspected at least quarterly - 372.1(e)(1)(iii	to	leak;	MA
		had tanks designed, constructed and operated with regulations - $372.1(e)(1)(ii)(\underline{f})$	in	accordance	Alla
		had tanks properly sheltered and protected-37	Ž.:	l(e)(1)(ii)	(g) 11/11
	C.	If Category 3 generator, has:			
*		annual report prepared - 372.1(e)(1)fff; and			<u>ilia</u>
		sent to DEC - 372.2(c)2			1:113

## <u>Indicate:</u>

X Violations

### <u>Indicate</u>:

X Satisfactory NA Not Applicable

For Category 5 and 6 generators complete remainder of Part II.

2.	Labelin	g & Marking
	A	The container is clearly marked and visible for inspection with the date upon which each period of accumulation begins = 372.2(a)(8)(ii)
	В	The container is labeled and marked in accordance with
3.	(For ge	accumulation of hazardous waste prior to shipment nerators who accumulate any hazardous waste for a period of or less or store 8,800 gallons or less in containers or gallons or less in tanks.)
	A	All such wastes are shipped off-site to an authorized treatment, storage or disposal (TSD) facility in 90 days or less. 372.2(a)(8)(ii)
	8	The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container 372.2(a)(8)(ii)
	Ç	Standards for management of containers = 372.2(a)(8)(ii); 373-3.9 (This section will also be completed for TSD's as referred to from Appendix A.)
	1.	What type of containers are used for accumulation? Describe the size, type. (e.g., 12 fifty-five gallon drums of waste acetone).
	,	Engl. 1.1.1 - 1: response town for the price of the second
		send + Ammin in Resultan Formally and 13-111 - 114 and coli towns
		FCC3 - April 20 - may Alash 1 Moin I Metal 19-1. 4 day gal signe
		1276 - Chilosoform 12-464, five only downs )
		1-lifty french is mit out both

X Violations

# <u>Indicate</u>:

2.	The containers appear to be in good condition and are not in danger of leaking. (If containers are leaking, describe the type, condition and number that are leaking or corroded. Be detailed and specific) - 373-3.9(b)
3.	Hazardous waste stored in containers made of compatible materials 373=3.9(c) (If not, please explain).
4.	All containers except those in use are closed - X 373-3.9(d)(1)
5.	Containers holding hazardous waste must not be opened, kandled or stored in a manner which may rupture the container or cause it to leak - 373-3.9(d)(2)
6.	The storage area is inspected at least weekly
7:	The generator complies with the following special requirements related to storage of ignitable, or reactive wastes 373-3.9(f):
	(a) Containers holding ignitable or reactive waste are $\times$ located at least 15 meters (50 feet) from the facility property line. 373+3.9(f)
	(b) X Generator has taken precuations to prevent accidental ignition or reaction of ignitable or reactive waste - 373-3.2(h)(1)
	(c) Senerator has placed "No Smoking" signs conspicuously wherever there is a hazard from ignitable or reactive waste - 373-3.2(h)(1)

Ţ	nd	ica	te:
-	_		

X Violations

	8.	The generator complies with the following special requirements related to incompatible wastes: 373-3.9(g)
(a)		The storage of ignitable or reactive wastes, and the mixture or comingling of incompatible wastes, or incompatible wastes and materials, is conducted to prevent = 373-3.2(h)(2)
		the generation of extreme heat or pressure, fire reaction - 373-3.2(h)(2)(i)
		production of uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to threaten human health - 373-3.2(h)(2)(ii)
		production of uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions - 373-3.2(h)(2)(iii)
		the damage to the structural integrity of the device 1116 or facility containing the waste - 373-3.2(h)(2)(iv)
		(5) a threat to human health or the environment $\frac{\kappa i h^2}{-373-3.2(h)(2)(v)}$
		Hazardous waste must not be placed in an unwashed container <u>Nice</u> that previously held an incompatible waste or material.  373-3.9(g)(2)
(ċ)	2	Hazardous waste in containers stored nearby incompatible waste <u>ring</u> or material is separated by the incompatible waste by a dike, berm, wall or other device. 373-3.9(g)(3).
D.	Sta	indards for management of tanks - 372.2(a)(8)(ii); 373-3.10
	1.	What are the approximate number and size of tanks containing hazardous waste?
		1-880 gallen undergraused tome To the possess of the of classes
		-1-120 Above go in all bound
		1-8-00 galler molephocety tank
	2.	Identify the waste treated/stored in each tank. Include whether they are above or below ground.
		12-10 golden discussional town - 5002
		3- and a windergo-and inov - iludge (Marc - 172x De)

Violations

## Indicate:

Tank Ge	neral	Operating Requirements - 373-3.10(b)	
3.		Hazardous wastes or treatment reagents are not placed in a tank, if they could cause the tank or its inner liner to rupture, leak, corrode, or otherwise fail befor the end of its intended life - 373-3.10(b)(2). If so, please explain.	e
4.	<del></del>	Uncovered tanks have at least 60 centimeters (2 feet) of freeboard or an adequate containment structure - 373-3.10(b)(3)	NX
5.		Where waste is continuously fed into a tank, the tank must be equipped with a means to stop the inflow (e.g., bypass system to a standby tank or a waste feed cutoff system) - 373-3.10(b)(4)	<u>×</u>
Tank Wa	aste Ai	nalysis - 373-3.10(c)	
6,		There is a waste analysis plan (Complete Appendix A, Number 4) if tank is to be used to chemically treat or store a hazardous waste substantially different from the previous waste, or if a different process is used from the previous process.	MIO
Tank I	nspect	ions - 373-3.10(b)	
7.	Tank	(s) are inspected each operating day for:	
	(A)	discharge control equipment (e.g., waste feed cutoff systems, bypass systems and drainage systems) - 373-3.10(d)(1)(i)	<u> </u>
	(B)	monitoring equipment (e.g., pressure and temperatu gauges) - 373-3.10(d)(1)(ii)	re <u>*</u>
	(C)	level of waste in tank to ensure proper freeboard 373-3.10(d)(1)(iii)	<u>- y.</u>
8.	Tank	(s) are inspected weekly for:	
	(A)	Corrosion or leaking of fixtures or seams - 373-3.10(d)(iv)	<u>/</u>
	(B)	Erosion or obvious signs of leakage (e.g., wet spots or dead vegetation) of the construction materials of, and the area immediately surrounding discharge confinement structures (e.g., dikes). 373-3.10(d)(v)	<u> </u>

X Violations

## Indicate:

Ignit	table or reactive wastes - 3/3-3.10(1)	
9.	Ignitable or reactive waste is placed in a tank and the waste is stored, treated, rendered or mixed before or immediately after placement in the tank so that the resulting wastes, mixture or dissolution of material is no longer ignitable or reactive.	<u> </u>
10.	Ignitable and reactive waste is stored in a tank and the tank is used solely for emergencies.	14 10
11.	Storage of ignitable or reactive waste in covered tanks complies with the National Fire Protection Association's (NFPA's) buffer zone requirements for tanks, contained in Tables 2-1 thru 2-6 of the "Flammable and Combustible Code, 1977."	Mil.
Incom	patible kastes - 373-3.10(g)	
12.	Incompatible wastes, or incompatible wastes and materials must be placed in the same tank unless 373-3.2(h)(2) is complied with. 373-3.10(g)(l)	MIL
13.	Incompatible wastes must not be placed in an unwashed tank which previously held an incompatible waste or material unless 373-3.2(h)(2) is complied with. 373-3.10(g)(2)	<u>12/17</u>
Spec - 37	cial Requirements in Kings, Queens, Nassau and Suffolk Counties 73–3.10(h)	
14.	The base underlying the tank is free of cracks and is sufficiently impervious to contain leaks.	
15.	The base is designed to drain or the tank is elevated to prevent contact with accumulated liquids.	<u> </u>
16.	Containment system can contain at least 110 percent of tank volume.	
17.	Run-on into containment system is prevented or designed for.	
18.	Leaked waste or accumulated precipitation is timely	

	Ind	i	cate:	
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X Violations

# <u>Indicate</u>:

1.	Mani	fest Records	= 372.2(b)				
	A	there is	s, from the avail a manifest copy a off-site that has	ivailable for	· each hazar	dous waste	<u>X</u>
		If "viola	ation" checked or	"don't know,	," please el	aborate.	·
					- Anniabana (1)		<del></del>
	В.		approximate size	of an avera	ge shipment	made and	
		K = \$14.	Lue gallen d	coms	and a first and a		
	C.	Each manifes	t (a representati - 372.2(b)(1); A	ve sample) h			
		·	Generator	Transporter 1	Transporter 2	TSDF	
1.		Name of	<u>. X</u>	<u> </u>		<u></u>	
2.		EPA ID No. o	<u> </u>	Section No. 10		. <u> </u>	<u> </u>
3.		Mailing Addr	ess of <u>x</u>		<u> </u>	<u> </u>	<u> </u>
4.		Telephone No	. of <u>*</u>		<u> </u>		<u></u>
5.		Manifest Doc	ument Nö. <u> </u>	<u>· · · · · · · · · · · · · · · · · · · </u>	<u> </u>	<u></u>	<del></del>
6.		The proper U	SDOT description.				<u> </u>
7.	·	The appropri	ate quantity, pe, and waste	contain type by uni	er no. ts of weigh	or volume.	
8.		described, p	fication that the ackaged, marked a ransportation und .2(a)(4) and 372.	nd labeled, er regulatio	and are in ns of the U	proper con- SDOT and	<u> </u>
9.		Signed copie	s of the manifest ity for at least	records hav	e been reta - 372.2(c)(	ined 1)(i)	<u> </u>

# <u>Indicate</u>:

X Violations

D	There is written communication that the designated treatment, storage or disposal facility is an authorized treatment, storage or disposal facility for the particular wastes being offered for shipment and has capacity to accept the hazardous waste set forth on the manifest and will assure the ultimate disposal method is followed. 372.2(b)(2)(i)
E	The generator must distribute copies of the manifest as specified on the manifest form - 372.2(b)(3)
F. Int	ernational shipments = 372.5
(1)	EPA has been notified four weeks prior to shipment of hazardous waste destined for treatment, storage or disposal outside the United States - $372.5(b)(1)$
(2)	Delivery of the wastes has been confirmed within 90 days of acceptance of initial transporter - $372.5(b)(2)$
(3)	The generator has identified the point of departure from the United States through which the waste must travel before entering a foreign country - $372.5(b)(3)(ii)$
G	Has complied with interstate shipments - 372.6 $\underline{N}^{10}$
н	Has complied with shipments by rail or water (bulk) 1372.7
I. <u>×</u>	Copies of all records have been kept for at least three years (e.g., annual reports, manifests, exception reports, sampling data) = 372.2(c)(1)(i), (ii), and (iii).
J	All records required under this subdivision were furnished upon request, or made available at a reasonable time for inspection - 372.2(c)(l)(iv)
K. <u>X</u>	The generator has received signed copies (from the TSD facility) of all manifests for wastes shipped off-site more than 20 days ago:
<u> </u>	If not, exception reports have been submitted covering these shipments - 372.2(c)(3)

Indicate:

X Violations

	IV WAS WASHINGTON
Personn	<u>rel Training - 372.2(a)(8)(ii) and 373+3.2(g)</u>
A. The	ere is a:
<u>×</u>	written description of the job title for each position at the facility related to hazardous waste management and name of the employee filling each job = 373=3.2(g)(4)(i)
<u>×</u>	written job description for each position 373-3.2(g)(4)(ii)
	written description of the type and amount of both introductory and continuing training that will be given to each person related to hazardous waste management = 373=3.2(g)(4)(iii)
	Records that document the training or job experience required 373-3.2(g)(4)(iv)
8. <u>×</u>	The training program is directed by a person trained in hazardous waste management procedures and must include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation relevant to the positions in which they are employed. 373-3.2(g)(1)(i),(ii) and (iii). The components are:
	Procedures for using, inspecting, repairing and replacing facility emergency and monitoring equipment;
	(2) Key perameters for automated waste feed cutcff systems;
	(3)Communications or alarm systems;
	(4) Response to fires and explosions;
	Résponse to groundwater contamination incidents; and
	(6) Shutdown of operations.
C. <u>*</u>	Facility personnel have successfully completed the program by the effective date of these regulations or six months after the date of their employment. 373=3.2(g)(2)
D. <u>×</u>	Facility personnel have taken part in an annual review of the initial training required. 373-3.2(g)(3)

<u>Indic</u> X		ations	Indicate:  X Satisfactory NA Not Applica	ble
Ē	• 🔀	Training records on current personnel have been permanently at the facility (until closure). 3	n kept 73=3.2(g)(5)	
F	• <u>×</u>	Training records on former employees have been at least three years from the date the employe at a facility. 373-3.2(g)(5)	kept for e last worked	<del></del> -
6. <u>P</u>	repare	dness and Prevention - 372.2(a)(8)(ii); 373-3.3		
A	•	The facility is maintained and operated to min possibility of a fire or explosion, or any unp or non-sudden release of hazardous waste or ha constituents to air, soil or surface water - 3	lanned sudden zardous waste	<u></u>
8	3 <b>.</b>	The facility must be equipped with the following missing equipment if needed in this facility's operations.) - 373-3.3(c)	ng (Check particular	
		(1) An internal communication or alarm so of providing immediate emergency insor signal) to facility personnel;	system capable struction (voice	
		(2) A device, such as a telephone or a hard-way radio capable of summoning eassistance from local police departments or state or local emergences;	emergency ments, fire	
	•	(3) Characle fire extinguishers, fire or		
		(4) Water at adequate volume and pressure water hose streams, or foam-production automatic sprinklers, or water spra	ng equipment, or	
(	C	Facility communications or alarm systems, firequipment, and spill control equipment are te maintained as necessary to assure their prope time of emergency = 373-3.3(d)	sted and	X

immediate access to an internal alarm or emergency communication device 373-3.3(e)

(Inspections should be able to be made of each drum and space should be sufficient to fight a fire).

D.  $\times$  Personnel involved in hazardous waste operations have

E.  $\times$  The facility has the required aisle space - 373-3.3(f)

Indicate:		<u>Indicate</u> :	
X Viola	ations	X Satisfactory NA Not Applic	
f.	good fait authoriti the facil	ity owner or operator has made an attempt in h to make the following arrangements with local es, as appropriate for the type of waste handled at ity and the potential need for the services of these ions - 373-3.3(g)(1):	
	(1)	Arrangements to familiarize police, fire departments and emergency response teams with the functions and layout of the facility;	<u>_</u> X
	(2)	Where more than one police and fire department might respond to an emergency, an agreement designating primary emergency authority to a specific police and a specific fire department, and agreements with any others to provide support to primary emergency authority	<b>l</b> .
	(3)	Agreements with government emergency response teams emergency response contractors, and equipment suppli	× iers;
	(4)	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illness which could result from fires, explosions or releases at facility; and	_ <u>×</u> the
	(5)	Where state or local authorities decline to enter into such arrangements, the owner or operator has documented the refusal in the operating record.	<u> 1841</u>
7. Conting	ency Plan	and Emergency Procedures = 372.2(a)(8)(ii); 373-3.4	
		lity has a contingency plan = 373-3.4(b)(1)	<u> </u>
В.	The follo	owing are included in the contingency plan 4(c)	
	(1)	A description of actions facility personnel must take in response to fires, explosions or any unplanned sudden or non-sudden releases of hazardou	<u>X</u>

provisions that are sufficient;

surface water;

(2)

waste or hazardous waste constituents to air, soil or

A spill prevention, control, and countermeasure

(SPCC) plan as defined in subdivision 610.2(j) and 40 CFR 300, or some other emergency or contingency

plan, amended to incorporate hazardous waste management

X Violations

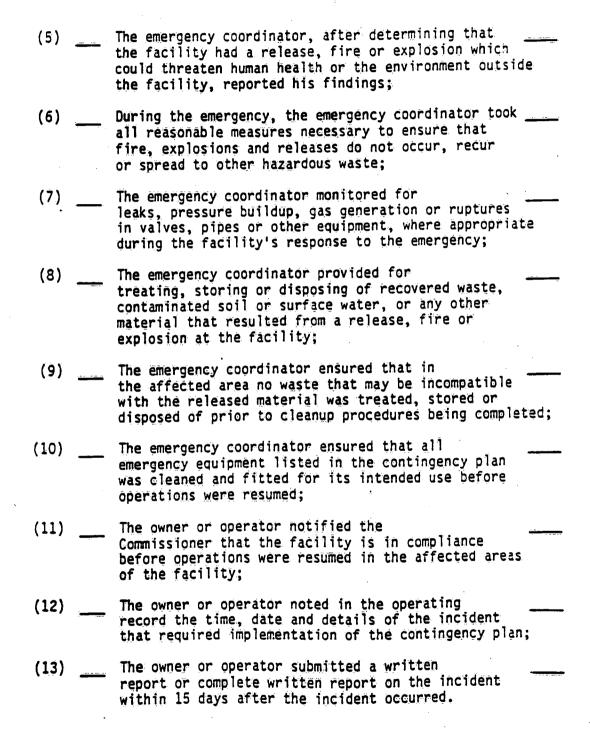
	(3)	<del></del> .	A description of arrangements agreed to by local police departments, fire departments, hospitals, contractors, and state and local emergency response teams to coordinate emergency services;	<u>×</u>
	(4)		Names, addresses and phone numbers of all persons qualified to act as emergency coordinator;	<u>×</u>
	(5)		A list of all emergency equipment at the facility, and decontamination equipment, where this equipment is required;	1
	(6)	====	The location and the physical description of each item on the list, and a brief outline of its capabil	$\frac{\checkmark}{\text{itles}}$ ;
	(7)	<del></del>	An evacuation plan for facility personnel, where there is a possibility that evacuation could be necessary.	$\frac{x}{ssary}$ .
c			the contingency plan are maintained at the - 373-3.4(d)(1)	<u>×</u>
D	loca and	l poli local	the contingency plan have been submitted to all ice departments, fire departments, hospitals, and statements response teams that may be called upon to mergency services - 373-3.4(d)(2)	±. te
ε	The :	conti	ngency plan has been amended - 373-3.4(e)	$\underline{\prec}$
F	prem	ises (	at least one employee either on the facility or on call with the responsibility for coordinating ency response measures - 373-3.4(f)	
Ğ	Duri (or imme	ng a p his de diate	past emergency situation the emergency coordinator esignee when the emergency coordinator is not on call ly activated emergency procedures = 373-3.4(g)	)ोपादि
	The	follo	wing was done:	
	(1)		Activated internal facility alarms or communication systems;	
	(2)		Notified appropriate state or local agencies;	
	(3)		Immediately identified the character, extent, exact source, amount and areal extent of any release materials;	d
	(4)		The emergency coordinator assessed possible hazardous to human health and the environment:	

#### Indicate:

X Violations

#### Indicate:

X Satisfactory NA Not Applicable



# Microwave Prwer Devices, Inc. NYDUMMM 7 & UE &

	Microwave Power Deurces, Inc., s a manufacturer of
	m crowaux components. These components are cleaned, plated
	and surface treated on the premises. The acid/alkali and
	chromate rusewaters from the plating shop and surface.
	treatment operations are chemically treated at the facility.
	Approximately, _540,000 gal./yr. of rinsewater is treated. And
	approximately 13,000 gal. yr. of studge is generated from
	this treatment system. The treated rinsewater is either ful
	reused in the facility or discharged into the Heartland
	Sewer System La privately owned treatment works.) Richard (
- 12	Streelex Department of Public Works his number is
- 1	516-422-1211, is familiar with this privately owned
	treatment works and the possibility of the county taking
	it over. The studge is removed by a liscensed bavier.

21. IF FACILITY IS A SANITARY LANDFILL, PROVIDE THE Formation and belief. False statements made herein are punishable.	b. Distance to flearest offsite, downgrown water supply well	Record Forms Other	water monitoring wells  Downgradient  true to the best of my knowledge I Law.
Currently Currently   Currently Currently   Construction Certificate	b. Distance to flearest offsite, downgrown water supply well	Record Forms Other	Downgradient
Initially Currently  22. INDICATE WHICH ATTACHMENTS, IF ANY, ARE INCLUDED Form 47-19-2 or SW-7 Operations Plan & Reconstruction Certificate Boring Logs  23. CERTIFICATION:	b. Distance to flearest offsite, downgrown water supply well	Record Forms Other	Downgradient
Initially Currently  22. INDICATE WHICH ATTACHMENTS, IF ANY, ARE INCLUDED Form 47-19-2 or SW-7	b. Distance to flearest offsite, downgrown water supply well   DED WITH THIS APPLICATION: eport USGS Topographic Map	Feet Upgradient	· · · · · · · · · · · · · · · · · · ·
Initially Currently  22. INDICATE WHICH ATTACHMENTS, IF ANY, ARE INCLUDE	b. Distance to nearest offsite, downg water supply well  DED WITH THIS APPLICATION:	· •	· · · · · · · · · · · · · · · · · · ·
a. Total useable area. (Acres)	b. Distance to nearest offsite, downs	· •	· · · · · · · · · · · · · · · · · · ·
a. Total useable area. (Acres)	OLLOWING INFORMATION:    b. Distance to nearest offsite, downer	radient, † č. No. of groun	water monitoring wells
ET. IF FACILITY IS A SANITARY LANGEUT. PROJUCE THE	•		
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	n to atting the	: '''(1212년에라면 'NOT')	•
	Internal	i <mark>rriditi</mark> ng of Pu <b>ps</b> ide work	parts only. We
DEER PARIL NY 11729	1000 gali	ons. Chemica	Is are used for
972 NICOLLS RD.	her Rêst.	the capacity	of our tanks is t
CHEMICAL MANAGEMENT INC.	Tanks are	drained appr	oximamoly once
Adding the samples,	COLLECTIO	N FREQUENCY	•
20. BRIEFLY DESCRIBE OPERATION NAME OF WASTE HAULER;	The state of the s	The second state is an experience of the second sec	
LT-26 Tin Solution	draining into	tank)	retized netole
Amonium Persulfate	months Chemi	e q rotilied a cals are nent	pprox. every 2 ralized before
Chromo Coat L=25	1 1/2 Gals of	each	
NAME OF CHEMICALS USED Deoxidizer 34-M	AMOUNT USED PE	MONTH	
19. LIST WASTES NOT ACCEPTED			
18. HAS THIS DEPARTMENT EVER APPROVED PLANS AND AND/OR ENGINEERING REPORTS FOR THIS FACILITY?	SPECIFICATIONS  Tyes Date	—————————————————————————————————————	Y
☐ kesource kecovery-chergy ☐ Kesource Recovery	y-Materials POther HULD TO	HAUL	A CONTRACTOR OF THE CONTRACTOR
17. TYPE OF PROJECT FACILITIES: Composting T	ransfer Shredding Baling	Sanitary Landfill   Inc	ineration Pyrolysis
T MICROWAVE POWER DEVICES. IN	C. SUFFOLK		6. ENVIRONMENTAL CONSERVATIO
14. PROJECT/FACILITY NAME	lie come	property in street and the second of the sec	
Yes Date Course Title	Location		☐: No
13. HAS THE INDIVIDUAL NAMED IN ITEM 10 ATTENDED	A DEPARTMENT SPONSORED OR APPROV	ED TRAINING COURSE?	TO45   STA   \$31 - 1400
AFSAHAM JAFFE	11. ADDRESS (Street, City, State, Zip C 23 KESWICK LAND. PI		12. Telephone No.
10. ON-SITE SUPERVISOR	N/A		N/A
A ENGINEER'S NAME.	8. ADDRESS (Street, City, State, Zip C	ode)	9. Telephoné No.
<u>■ 1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1</u>	5. ADDRESS (Street, City, State, Zip C	ode) PPANCE MY I	6. Telephone No.
THE ROSE POWER DEVICES, INC	. 330 CSHL AVE., HAU	leauch, NY 1	1787 516 231-1400
4. OPERATOR'S NAME	The state of the s	ode)	3. Telephone No.
4. OPERATOR'S NAME	2. ADDRESS (Street, City, State, Zip C	Approved [*] Disa	
1. OWNER'S NAME  4. OPERATOR'S NAME  4. OPERATOR'S NAME	· 	DEPARTMENT ACTION  Department Action Disa	DATE
1. OWNER'S NAME  4. OPERATOR'S NAME	ENT FACILITY	DEPARTMENT ACTION	

# APPLICATION FOR APPROVAL TO CONSTRUCT

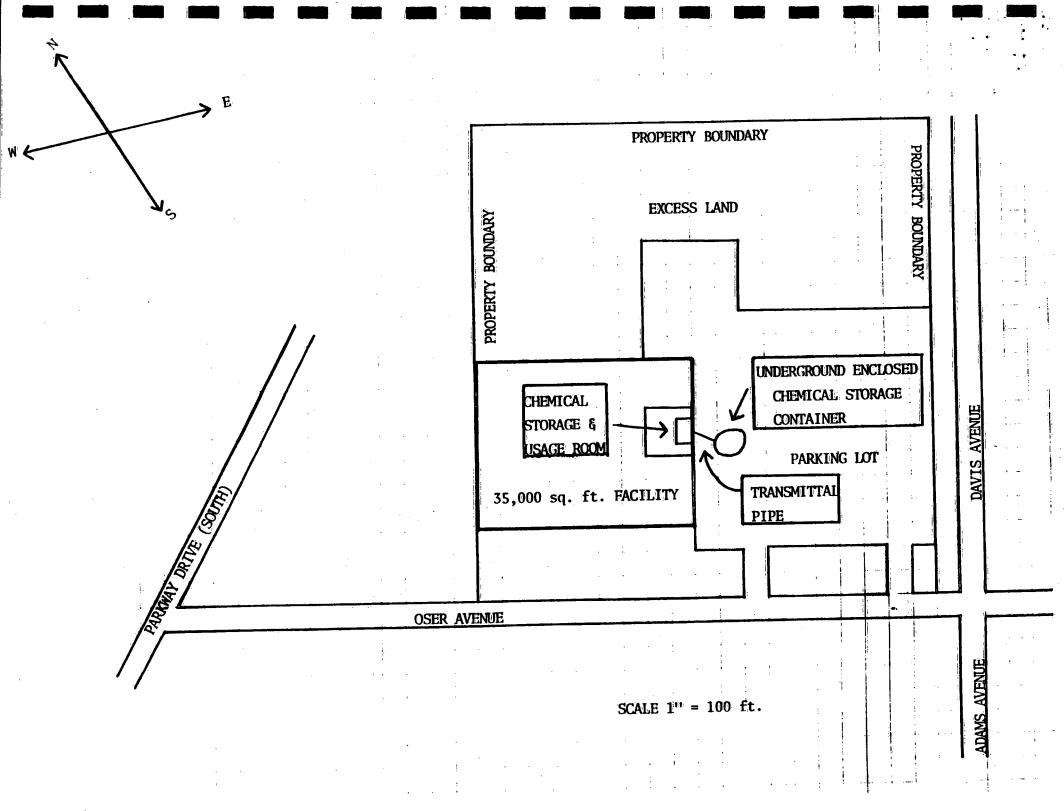
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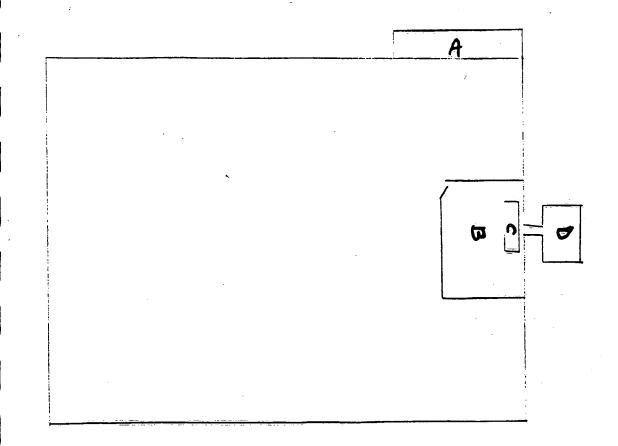
FOR STATE USE	DNLY
PROJECT NO.	DATE RECEIVED
DEPARTMENT ACTION	DATE
Approved Disapproved	
3. Telep	hone No.

A SOLID WASTE MANAGEM	ENT FACILITY	DEPARTMENT ACTION	DATE
SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE		Approved Disa	proved
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ORESS (Street, City, State, Zip Code)		3. Telephone No.
	7 Coer Ave. Haistwice, A.Y.	11728	516/231-1400
	RESS (Street, City, State, Zip Code)		6. Telephone No.
Microwave Power Devices, Inc. 33	O Goer Avenue, Hauppauge, N.	Y.11788	516/231-1400
7a. ENGINEER'S NAME 8. ADI	RESS (Street, City, State, Zip Code)	ச <b>ெ</b> ழுத்து திருந்திருக்கிறத்	9. Telephone No. 516/862-6767
Donnelly Engineering	Jefferson Ave. St. James, N.	T - 11/80 Lujar	310/ 202-0101
7b. ENGINEER'S N.Y.S. LICENSE NO. 10. TYPE OF PROJECT, FAC	Ansfer Shredding Balling Sanitary Lar	dill T C Incineration	
	ource Recovery-Energy Resource Recovery-Ma	terials Of Other PX	vate Industrial
11. Briefly describe the project including the basic process and ma	ior components		an Edward Archive
11. Dien describe the project including the basic process and me		Three To not stated	
Construction of a wastewater tree	then: System, and arplating	The state of	
and and the state of	rd admirate the second and a sine	Inortact on av the s	No. of the second second
12. Describe location of facility. (Attach a USGS Topographic Map	showing the exact location of the facility)		
Facility is located within an exc	ation indicated at parts in Ha	TODAUGE	
Facility 13 locates within an ex-	alone or A Marie and a Air one on	Salahar dari abula	
	14 Environmental Concervation	Region in which facilit	y is located:
13. County in which facility is located:  Suffolk		ed iven sesoious 📆	E . V Market Comment
15. Municipalities Served by Facil		Lan County and dar	No. of Municipalities
		AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	
Managing at the bear of the	Mercane description to them to seen		N. DE PAR AND
The second secon	The State of the S	at the manicipality	
The state of the s	TO CIA: THE PROPERTY STATE TO A VINCENTY	diagoas sus un turn	
		PASSES THE PARTY AND TO	10
16: Describe briefly how the proposed facility relates to the Comp	rehensive Solid Waste Management Plan for the Mi	micipality, Explain any	dealgrion from figt Light
	work compress and to gold a ses	Here a company	J) Start
WANTE AND TO STORY		AN Park and a many	ro Co
स्त्राच्या । प्राप्त १ के.स्यू १ के.स्य प्रश्ना प्रस्ति कर्मस्य करा । प्राप्त करा १ क्रिक्स करा । प्राप्त १ क् स्रोता	harmound	ก <del>ล้ง</del> เลษาในกราชงเร <b>รา</b> ดี	13
17. If the facility is other than a sanitary landfill, describe the re	sidues in terms of quantities and types. Also indi	cate the methods and lo	cations of residue disposal
or, if recyclable, indicate markets:			
Traditionary of the second of the second of the second	والمراج والمعاولات أعطيها أبار والمعجو أحارا الرويونيون		Methca
)) Treated acid/alkali & chrorate we	<b>stevater</b> (446 - 1556 - 1554 by (1566 - 1	Prin Gar . Jo	semer system le for Scav. Mail
2) Introduced static rinses & spent :	lating baths: John Teach of		La for Scar, Nov.
3) Westewater treatment sluige	<u>و المحالية المحالية</u>	45 gad He	
18. If the facility is a sanitary landfill, provide the following info	ormation: N/A		
a. Total useable area — Acres	e. Distance to nearest airport —	The state of the s	miles
b. Distance to nearest surface water =Feet	f. Expected life of site -		
c. Depth to nearest ground water Feet			∐ νο
d. Depth to nearest rock Feet .	h. Predominant type of soil on si (Use Unified Soil Classifica	te:	
19. Anticipated construction starting and completion dates	20. Estimated Population Serv	ed <sup>2</sup>	
From To	Current N/A	Design -	
June 1982 October 196	diar. is seed a large to the contract of	မြှောက်ရောက်သည်။ အသည် မေသ	
21. Estimated Cost Annual Annual	22. Estimated Daily Tornages Current	Design	A = .
\$3,000,000 \$100,000	N/A	Appro	k.1600 gal/day
23. Operating Hours per Day	24. Are attached plans and sp		and the contract of the contra
Comay-Friday: 3-hours per day	"Content Guidelines for f	lans and Specifications	" Yes No
25. CERTIFICATION:			
I hereby affirm under penalty of perjury that information pr	ovided on this form and attached statements and	exhibits is true to the b	est of my knowledge and
belief. False statements made herein are punishable as a	Class A misdemeanor pursuant to Section 210.45	of the Penal Law.	
C/2/2-	e de la companya de	1200	1 124
Date /	Signature and Title	/1	Control of the Contro
			1 3
		İ	f:

A SOLID WASTE MANAGEMEN	TO OPERATE TO FACILITY	SZ H /S	DATE RECEIVED
SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE	## (***) ## (***)	Thronoved This	The state of the s
1. OWNER'S NAME 2.	ADDRESS (Street, City, State, Zin	Codes	3. Telephone No.
The Ive Power Daview Inc.	330 Oger Avenue, E	authorize, N.Y. L	768 516/231-1400
4. OPERATOR'S NAME	ADDRESS (Street, City, State, Zi	Code)	6. Telephone No.
7. ENGINEER'S NAME 8.	330 Oser (Venue, B ADDRESS (Street, City, State, Zi		788 516/231-1400 9. Telephone No.
Described Engineering	10 Jefferson Ave.	_	less of the later
	ADDRESS (Street, City, State, Zi	o Code)	12. Telephone No.
Michael Campizzaro	330 Open Avenue, H	auppauge, N.Y. 1	788 516/231-1400
13. HAS THE INDIVIDUAL NAMED IN ITEM 10 ATTENDED A D  Yes Date Course Title	Location		<b>10</b> No
	15. COUNTY IN WHIC	H FACILITY IS LOCATED:	16. ENVIRONMENTAL CONSERVATION REGION I
Microseve Power Embade Devices, Inc. 17. TYPE OF PROJECT FACILITIES:   Composting Trans			
Resource Recovery-Energy Resource Recovery-Main	aterials Cother Industra	al Hold to Haul	nd/or Secr Discharge
18. HAS THIS DEPARTMENT EVER APPROVED PLANS AND SPE AND/OR ENGINEERING REPORTS FOR THIS FACILITY? [	CIFICATIONS  Tyes Date	. S No	
19. LIST WASTES NOT ACCEPTED			75,000 gal/yr
Treated rinsewater from plating Sludge generated from wastewater		are the second of the second o	11,250 gal/yr
Static rinsember & spent platin			10,000 gal/yr
			A SECTION OF THE SECT
20. BRIEFLY DESCRIBE OPERATION Microwave Power Devices, Inc., is		e es des descriptes a	A DESCRIPTION OF THE PARTY OF T
industry. These components are cl	a manufacturer of in	refere treated on	the resulter. A
portion of the westewater generate	garan' bracan am ar	treated to that	it will be suitable
for either reuse within the facili	ty or discharge intr	the Heartland S	ewer System, a
privately owned treatment works se	aving the industrial	park. The untre	ated static minses and
spent planting baths from the plati	ng operation will be	held for haulin	g by an approved
scavener.		\$ \$ }	
The total storage tark volume for			
•			ection Frequency
Static rinses & spent plating bath		10 t	ines per year
Static rinses & spent plating bath Treatment sludge - 3000 gal.	s - 1000 gal.	10 t 4 ti	ines per year
Static rinses & spent plating bath	s - 1000 gal.	10 t 4 ti	ines per year
Static rinses & spent plating bath Treatment sludge - 3000 gal. There is no drum storage planned a	s - 1000 gal.	10 t 4 ti	ines per year
Static rinses & spent plating bath Treatment sludge - 3000 gal. There is no drum storage planned a	s - 1000 gal.	10 t 4 ti	ines per year
Static rinses & spent plating bath Treatment sludge - 3000 gal. There is no drum storage planned a	s - 1000 gal.	10 t 4 ti	ines per year
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Static rinses & spent plating bath Treatment sludge - 3000 gal. There is no drum storage planned a	s - 1000 gal.	10 t 4 ti vices at the pre	ines per year
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Static rinses & spent plating bath Treatment sludge - 3000 gal.  There is no drum storage planned a Scavenger: Chamical Waste Manager  21. IF FACILITY IS A SANITARY LANDFILL, PROVIDE THE FOR a. Total useable area: (Acres)	LLOWING INFORMATION: b. Distance to nearest offsite, do	10 to 4 ti 4 ti Presente A ti	ines per year sent time.  EIVED - 8 1982 MENTAL QUALITY.
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Static rinses & spent plating bath Treatment sludge - 3000 gal.  There is no drum storage planned a Scavenger: Chemical Waste Manager  21. IF FACILITY IS A SANITARY LANDFILL, PROVIDE THE FOR a. Total useable area: (Acres)  Initially Currently  22. INDICATE WHICH ATTACHMENTS, IF ANY, ARE INCLUDE	LOWING INFORMATION: b. Distance to nearest offsite, do water supply well  D WITH THIS APPLICATION:	ENVIRONI  Dwngradient,   c. No. of gi Upgradie	ines per year sent time.  Sent time.  8 1982  MENTAL QUALITY.  Soundwater monitoring wells  nt
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SIGNATURE NAME : MICROWAVE POWER DEVICES, TWO. rrulation 1. Mgc. TITLE 330 OSER AUE. DATE HAUPPANGE, NY 11787 WILLETS PATH OLD MARCUS BLVD. NIKO M, AUDIO WORLD-WIDE DISTRIBUTING 本マ府 D 30 T MICROWAVE POWER DEVICES BROADLINE ELECTRONICS (PRESENTLY UN-OCCUPIED) No Sanitary Couspools
And Park STP! 2) Kas floor charms connect PLOT SKETCH





A- Loading Dock.

B- Irridite Room.

C- Irridite Chemical Tank.

D- Sealed chemical waste storage tank.

# MATERIALS FLOW DESCRIPTION

Chemicals used are new, received in containers ranging from Igallon to 5 gallons. Materials are received at loading dock and transported intact to irridite room where chemicals are mixed into irriditing dip tunk. Tanks are drained via scaled pipes to waste storage tank which is located a 5 feet underground outside of building. Waste materials are pumped out by Ny. State approved waste collector approved once per year.

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

#### PROJECT PERMIT REQUIREMENT QUENTIONNAIRE

The purpose of this questionnaire is to assist the applicant in determining what, if any Department Permits or approvals must be obtained before starting work on a proposed project. If you are not sure if the action proposed is a regulated activity or is within an area subject to Department regulations (tidal wetlands, freshwater wetlands, etc.) contact our regional office for clarification. A pre-application conference with our staff to obtain guidance in the Department's permit application review process can be arranged.

#### AMENER ALL QUESTIONS MAME OF APPLICANT: MICROWAVE POWER DEVKES, TMC. DETAILED PROJECT DESCRIPTION & LOCATION: OSER AVE HAUPPAULE TOK Realty Subdivision Approvals in Nassau County YES ΝО KNOWN Does project involve subdivision of land into 5 or more residential lots that will be served by a public or community sewage disposal system? Mining Permit Does project involve the mining and commercial sale or off-site use of 1,000 tons of mineral within 12 calendar months (excepting excavation or grading in connection with on site construction or farming)? Air Contamination Permit New or Medified Scurces: Does project involve the construction, medification or operation of a boiler greater than I million RTU/hr rated heat input, an incinerator or an industrial process. Indirect Scurce: Does project involve construction or modification of a highway, airport or a parking facility with 250 or more spaces? Solid Waste Management Permit Does project involve the storage, transfer, processing or disposal of solid waste? Wild, Scenic & Recreational Rivers Permit Only applies to certain lands within a in mile of the Carnaus River. Consult D.E.C. Regional Office for exact determination. Water Supply Permit Does project involve the acquisition of land or construction of facilities for water supply or distribution purposes? 7. Long Island Well Permit Does project involve the construction of a new well or deepening or increasing the capacity of an existing well to withdraw water at a rate greater than 45 gallons a minute? b) Will project require the temperary lowering of groundwater levels for construction purposes? Protection of Waters Will project change, nedify or otherwise disturb the course, channel or bed of any strenn classified C(T) or higher? (Consult the Regional Office for classifications). b) Does project involve the temporary or per-

manent artificial obstruction of a natural

Does project involve the construction of repair of a permanent dock, pier or wharf having a top surface area more than 200-square feet? Does project involve any excavation or placing of fill in the navigable waters of the State

stream or watercourse?

and adjacent wetlands?

				NOT
9.	Tidal Wetlands Permit	YES	110	KMOVNI
	I. Will project be located:			
	a) in tidal waters.	•		
	10.75 Fig. 1 to 1 to the material and a series of			
	b) within 300-feet of either the landward edge			
	of a tidal wetland boundary or a tidal body		1	
	of water?		<b>Y</b> .	
	II. Will there be any subdivision of land or physical		$T_{\rm c}$	
4	alterations of land or water?	· · · · · · · · · · · · · · · · · · ·	V	
1	Exemptions to the above regulated locations if:	<del></del>		
1	1) Project will be located at a ground elevation of		1	
	10-feet or higher above mean sea level (excepting	•		
ŧ	on the face of a bluff or cliff).		<u>v</u>	
i .	2) A substantial, man-made structure (such as a			
•	paved street or bulkhead) 100-feet or longer exist	s		
	between the project site and tidal wetlands or	174	1	
	tidal water. (Consult D.E.C. Regional Office		·/	
	if unsure.)		<u> </u>	
10.	Freshwater Metlands Permit			
	a) Will project area be within, or within 100-feet		1.	
	of, a freshwater wetland or freshwater body of			
	12.4 acres or larger?		i/	
4.5			<del></del>	
	b) Will project involve draining, dredging, filling,			
-c	excavating, erecting structures, roads, utilities		7	
	or other alterations or placing any form of			
	pollution in a wetland? (Consult D.E.C. Regional		- / · ·	
	Office if unsure).		<b>V</b>	
11.	Section 401 - Water Quality Certification Letter			
	Does project or activity require a Federal Permit			
	or License? If so, this State certification may be			
	required prior to Federal approval.	* +-+-		
12.	State Pollutant Discharge Elimination System	<del></del>		
	(SPDES) Permit			
	Does project involve:			
	a) A proposed subdivision of 5 or more units?		V	
	b) A proposed or existing discharge of 1,000			
	gallons per day of sewage or any discharge		. /	
	of industrial or other wastes to ground			
	vaters?		V	
	c) Any discharge of scwage, industrial or			
1	other wastes to surface water?		1 .	
		<del></del>	<u>v_</u> /	<del></del>
	in the second of			
	industrial or other wastes?		<u>V</u> /	
	e) Any storage and disposal of potentially			
	toxic or hazardous vastes?		V	
13.	The following additional required D.F.C. permits have	<del></del> -	1-i	
	been applied for:			
Type	of Appli. Application Applicant's Name (If d			
Per	nit No. Filing Date application now being	enpurce	en.)	
1.4	Trice will selve manage transcription to the selection of	- 4'L		
-4.	List all other permits, licenses or approvals required by	otner a	iscuc16	s öI
	government:			
Tun	of Parmit	Chaba	_	

I certify that the above information is correct to the best of my knowledge.

3/3/80 DATE

or Approval

SIGNATURE OF APPLICANT OR AUTHORIZED REPRESENTATIVE

### SHORT ENVIRONMENTAL ASSESSMENT FURM

### INSTRUCTIONS:

- (a) In order to answer the questions in this short EAF is is assumed that the preparer will use currently available information concerning the project and the likely impacts of the action. It is not expected that additional studies, research or other investigations will be undertaken.
- (b) If any question has been answered Yes the project may be significant and a completed Environmental Assessment Form is necessary.
- (c) If all questions have been answered No it is likely that this project is not significant.

	nvironmental Assessment
1.	Will project result in a large physical change to the project site or physically alter more than 10 acres of land?
2.	unusual land form found on the site!
	Will project alter or have a large effect on an existing body of water? Yes No
,	Will project have a potentially large impact on groundwater quality?
	Will project significantly effect drainage flow on adjacent sites?
	Will project affect any threatened or endangered Pes Yes No
	Will project result in a major adverse effect on air quality?
8.	Will project have a major effect on visual character of the community or scenic views or vistas known to be important to the community? Yes No
9•	importance or any site designated as a critical environmental area by a local agency?
10.	future recreational opportunities:
22.	cause a major effect to existing transport yes V No systems?
12.	will project regularly cause objectionable odors, noise, glare, vibration, or electrical disturbance as a result of the project's operation?  Yes
13,	Will project have any impact on public health of safety?
14.	will project affect the existing community by directly causing a growth in permanent population of more than 5 percent ever a onc-year period or have a major negative effect on the character of the community or neighborhood? . Yes
15	Is there public controversy concerning the project? Yes V No
	S SIGNATURE: Worker Jefft TITLE: Production Manager
REPRESENT 9/1/78	DATE: 3/3/80



# ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY (VERIFICATION)

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

MICROWAVE POWER DEVICES INC.
330 OSER AVE
HAUPPAUGE
NY 11787
INSTALLATION ADDRESS

330 OSER AVE
HAUPPAUGE
NY 11787

EPA Form 8700-12B (4-80)

12/22/80

Ple	ase p	orint or	type	with ELITE	type (/	2 charac	ters/in	ch/ in t	he un	shaded	areas (	only.				GSA	No. 02	16-EP	A-C	)Ť			
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All existing facilities must include photographs (aerial	or around—level) that	clearly delineate all existi	na structures: exist	ting storage.
treatment and disposal areas; and sites of future storage	ge, treatment or dispos	al areas (see instructions i	or more detail).	
II. FACILITY GEOGRAPHIC LOCATION				
LATITUDE (degrees, minutes, & seconds)		LONGITUDE (d	egrees, minutes, & sec	onds)
III. FACILITY OWNER		72	74 75 76 77 - 79	
XA. If the facility owner is also the facility operator as list	and in Section VIIII on En	m 1 11Connect Information!	nices on !!V!! in the !	now on the left and
skip to Section IX below.	led in Section VIII on Po	m 1, "General Information",	, place an "X" in the i	•
B. If the facility owner is not the facility operator as list	ed in Section VIII on Eor	m 1 complete the following	itome:	*.* ±
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A Form 3510-3 (6-80)				CONTINUE ON PAGE

I called Mr. Cannizzavo, facility contact at Microwave lewer. I ested him to describe to HW activities at the facility, since the application is confusing (the surface impound ment DO83 is not shown on the facility drawing).
He said that the herardous wastes are neutralized and then stored in a 150 gal. underground tank which is pumped out by a hover. The codes for container storage and surface impoundment are erroneous. However, a large plant expansion is in progress which will include new plating operations. A waste treatment plant is being built for this apporation. Dennelly Engineering is designing the system and will be submitting a revised last A. The waste us ster from the trestment plant will be recycled when possible. However, the excess will be stored to be hould away. I stated that the topographic map and photos required in the application were not submitted. He said he would inform Donnelly te put them in the revised application.

> J. Josepho Solid Waste Branch

# DONNELLÝ ÉNGINEERING

Lawrence A. Donnelly, P.E. CONSULTING ENGINEER

10 Jefferson Avenue St. James, New York 11780 516-862-6767

June 17, 1982

Jy 2/2/82

USEPA Region II 26 Federal Plaza New York, N.Y. 10278

Attn: Harry Ruisi, Permits Administration Branch

Re: Microwave Power Devices EPA ID# NYD044470680

Noton Run

Dear Mr. Ruisi:

Confirming our telecon of 6/16/82 regarding Microwave Power Devices of Hauppauge, N.Y. it is our understanding that NYSDEC and SCDPW have jurisdiction on MPD's industrial discharge to a privately owned treatment works. All necessary applications for permits to discharge will be filed directly with NYSDEC and SCDPW and USEPA has no concern over this matter.

The sludge generated by pre-treatment of industrial waste and any additional hazardous waste held on site is governed by the USEPA RCRA program. If the sludge and hazardous waste are hauled from the premises within 90 days, MPD is covered by their generator ID number and no RCRA permits are required.

We believe the above is an accurate reflection of our conversation. Please advise in writing As soon as possible if you disagree with this interpretation as we will assume the above to be true unless we are otherwise informed.

Very truly yours,

DONNELLY ENGINEERING

Linda Ginsburg

LG/tm

cc: Abe Jaffe
Mike Cannizzarro
Steve Malkmes



RESOURCE CONSERVATION

## APPENDIX-B TO ENGINEERING REPORT

, A PLAN FOR CLOSURE

SUBMITTED BY
MICROWAVE POWER DEVICES, INC.
330 OSER AVENUE
HAUPPAUGE, NEW YORK, 11788

PREPARED BY

DONNELLY ENGINEERING

10 JEFFERSON AVENUE, ST. JAMES, NEW YORK 11780

JULY 1982

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#### 1.0 INTRODUCTION

components for the electronics industry. These components are cleaned, plated and surface treated on the premises. Hazardous wastes are generated by these processes. This Plan is submitted to the New York State Dept. of Environmental Conservation as part of a complete application for a Permit to Construct and Operate a Hazardous Waste Management Facility, (Part 360 Permit). This Plan describes the procedures necessary to close the facility, and estimates the cost involved with the closure.

# 2.0 IDENTIFICATION OF HAZARDOUS WASTE STORAGE

In accordance with Part 360.8(c)(6)(11)(2), the following list gives an estimate of the maximum inventory of waste in storage or in treatment at any one time at the facility.

- B) Sludge generated from the chemical treatment of wastewater from the cleaning, plating and surface treating processes......3,000 gal.
- D) Spent static rinse baths from the cleaning, plating and surface treating processes...... 500 gal.

#### 3.0 PROCEDURES FOR CLOSURE

Closure of Microwave Power Devices, Inc. involves four major areas of concern. The first two areas are the Plating Room and the Wastewater Treatment system. In these areas all equipment must be decontaminated and all waste must be disposed of. The third area, Drum Storage, involves the removal of all hazardous waste stored in drums onsite. The last area, Outdoor Tanks, involves the decontamination of the underground tanks and related equipment.

### 3.1 PLATING ROOM CLOSURE

The plating room consists of plating tanks, plating equipment and related mechanical equipment. The plating tank solutions will be emptied into drums for temporary storage. The rinse tank solutions will be drained to the wastewater treatment system for treatment with the effluent being discharged from the facility. The tanks will then be cleaned by an industrial tank cleaner. The industrial tank cleaning company would use a solvent or compatible detergent and water to clean the tanks. As much waste product would be pumped from the pipelines as possible. The lines would then be pressure-cleaned with water. In addition, all pipeline appurtenances, such as transfer pumps, would be cleaned by flushing with water. This wastewater will be drained to the wastewater treatment system for treatment.

## 3.2 WASTEWATER TREATMENT SYSTEM CLOSURE

The wastewater treatment system consists of wastewater storage and chemical storage tanks, wastewater clarification tanks and related equipment. All tank contents will be emptied into drums for temporary storage. The tanks will then be cleaned by an industrial tank cleaning company. The industrial tank cleaner would use a solvent or compatible detergent and water to clean the tanks. As much waste product would be pumped from the pipelines as possible. The lines will then be pressure— cleaned with water. In addition, all pipeline appurtenances, such as transfer pumps, would be cleaned by flushing with water. All wash and rinsewater from the closure operations will be removed by a licensed scavenger.

#### 3.3 DRUM REMOVAL

All drums, full, part full and empty, will be transported offsite by a licensed scavenger. All storage areas will be cleaned with solvent and water until all waste residues are removed. All washwater and rinsewater generated from the closure operations will be removed by a licensed scavenger.

#### 3.4 OUTDOOR TANK CLOSURE

The outdoor underground sludge storage tank and the underground

clearwell tank will be emptied of all waste product. The tanks will be cleaned with a compatible detergent solution and water by an industrial tank cleaner. All associated piping will also be cleaned. All waste product, wash and rinsewater will be removed by a licensed scavenger. The tanks will remain intact for possible use by a future occupant of the facility.

ALL WASTE REMOVED DURING THE CLOSURE OPERATIONS WILL BE MANIFESTED IN ACCORDANCE WITH RCRA REGULATIONS.

#### 3.5 CLOSURE SCHEDULE

It is anticipated that all hazardous waste would be removed from the facility within 90-days of receiving the final volume of wastewater to be treated from the plating processes. Microwave Power Devices, Inc., would complete closure within 180-days from this same date. This Closure Plan will be submitted to the Regional Administrator at least 180-days prior to commencement of Closure procedures.

# 4.0 CERTIFICATION OF CLOSURE

When closure is complete, Microwave Power Devices will submit to the New York State Dept. of Environmental Conservation letters from Microwave Power Devices and an independent Professional Engineer certifying that the facility has been closed in accordance with the specifications of this Plan.

## 5.0 COST ESTIMATE FOR CLOSURE

The cost estimate which follows is computed on a "worst case" situation. This "worst case" cost estimate is in line with the method of cost estimating required by Para. 265.142 of the Resource Conservation and Recovery Act (RCRA). It must be realized, however, that the closure cost estimate is unrealistically high as a result.

The cost estimate shown in Table 1 reflects the maximum cost associated with facility closure.

On an annual basis, the cost estimate will be revised by multiplying the estimate by a factor for inflation. The inflation factor will be calculated by dividing the latest published annual Implicit Price Deflator for Gross National Product by the deflator for the previous year (see Para. 265.142 of RCRA).

# TABLE 1 - FACILITY CLOSURE COST ESTIMATE

TORK		COST
ITEM		
1) Removal and disposal o	f all hazardous	
material from tanks (m	ax. capacity)	
10,000 gallons \$1.00/g	al.	\$10,000
2) Tank Cleaning		5,000
3) Pipeline & pipeline eq	uipment cleaning	3,000
4) Drum removal and dispo	osal	2,000
5) Cleaning of storage as	čéas.	1,000
6) Disposal of all contar	minated equipment	
from the Microwave Por	wer Devices	
facility.		4,500
	TOTAL	\$25,500

REFERENCE NO. 12

# Summary of the

# Hydrologic Situation on

# Long Island, New York,

as a Guide to

# Water-Management Alternatives

By O. L. FRANKE and N. E. McCLYMONDS

HYDROLOGY AND SOME EFFECTS OF URBANIZATION ON LONG ISLAND, NEW YORK

# GEOLOGICAL SURVEY PROFESSIONAL PAPER 627-F

Prepared in cooperation with the New York
State Department of Conservation, Division
of Water Resources; the Nassau County
Department of Public Works; the Suffolk
County Board of Supervisors; and the
Suffolk County Water Authority



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defined in Kings and Queens Counties and along the northern margin of the island eastward to the middle of Suffolk County. In eastern Suffolk County, however, data on the contact between the Pleistocene and the Cretaceous are very sparse.

The upper surface of the Cretaceous deposits is above sea level in a large area in northern Nassau and western Suffolk Counties, and in all but a few small areas, the Pleistocene deposits cover the Cretaceous deposits throughout Long Island. Pertinent information concerning the principal hydrogeologic units within the ground-water reservoir are briefly summarized in table 2.

Ground water in the uppermost part of the zone of saturation on Long Island (mainly in the upper glacial aquifer, but locally also in the Magothy aquifer) is generally under water-table conditions. Artesian conditions predominate in most of the other parts of the ground-water reservoir of Long Island, where the saturated deposits are overlain and confined by silty and clayey layers of low hydraulic conductivity. The hydraulic head in the confined aquifers ranges from several feet below the water table to nearly 20 feet above it. At places along the north and south shores and on the barrier beaches, the head in the Lloyd aquifer is high enough to cause some wells which penetrate this aquifer to flow.

In addition to the Raritan clay, which confines water in the Lloyd aquifer, the other major well-defined confining layer in the ground-water reservoir is the Gardiners Clay. This unit locally confines water in the Jameco and Magothy aquifers. Numerous clayey and silty layers in the Magothy aquifer and clay beds in the glacial deposits also are significant confining layers. Normally, the degree of confinement in the Magothy aquifer increases with depth as more and more clayey layers intervene between the deep zone and the water table.

#### BOUNDARIES OF THE FRESH GROUND-WATER RESERVOIR

The boundaries of the fresh ground-water reservoir are the water table, the fresh-salt water interface, and the bedrock surface. The estimated average position of the water table under natural conditions is shown in figure 9. The position of the contours is based on a map of the water table in Kings, Queens, and Nassau Counties in 1903 (prepared by Veatch in 1906), and on later water-table maps of Suffolk County.

Major features of this map are the two areas of highest ground-water altitude (represented by closed 80-ft and 60-ft contours) which extend approximately westward in the north-central parts of Nassau and Suffolk Counties. Also noteworthy are the steep water-level gradients near the north shore of Long Island compared to the gradients near the south shore.

The water table, which is the upper boundary of the ground-water reservoir, is a dynamic (moveable) feature. Present information indicates that recharge to the water table occurs throughout virtually all of Long Island. Therefore, the water table is not, from the point of view of potential theory, a stream surface. It is instead a surface characterized by a constantly varying potential which is equal to the altitude of the water table at any point. Because the water table on Long Island is largely a recharging potential boundary of the ground-water reservoir, streamlines flow perpendicularly from the water table into the ground-water reservoir. Locally, as near the shorelines where ground water is lost by evapotranspiration, the water table is a discharging potential boundary.

The ground-water reservoir is bordered laterally by a second moveable boundary—the fresh-salt water interface. The position of this interface (or these interfaces) is fairly accurately known only in southwestern Nassau and southeastern Queens Counties as a result of an intensive investigation by Lusczynski and Swarzanski (1966). A north-south cross section through the ground-water reservoir in this area (fig. 10) shows three separate salt-water wedges—a shallow wedge in the glacial aquifer and intermediate and deep wedges in the Magothy aquifer. Furthermore, a fourth wedge exists in the Lloyd aquifer somewhere seaward of the barrier beaches.

The occurrence of fresh ground water in the Lloyd aquifer below salty ground water in the lower part of the Magothy aquifer has never been adequately explained. However, this occurrence must be related in some way to the relatively impermeable Raritan clay overlying the Lloyd aquifer. At least four separate wedges of salty ground water with relative positions approximately as indicated in figure 10 probably occur for a considerable distance eastward from western Nassau County (on the order of tens of miles) along the south shore of Long Island.

Very scanty information indicates that the Lloyd aquifer and the deep Magothy aquifer contain salty ground water beneath the Forks of Long Island. The fresh ground water beneath the Forks occurs in a lens ranging in thickness from a few feet to several hundred feet.

derlain by terminal-moraine deposits, the depth to water table is more than 50 feet, and in small greas the depth to the water table is more than 200 feet. Depths to the water table near the northern coast of the island generally are more than 20 feet, except adjacent to stream channels or in narrow bands near the shoreline.

#### GROUND-WATER RESERVOIR

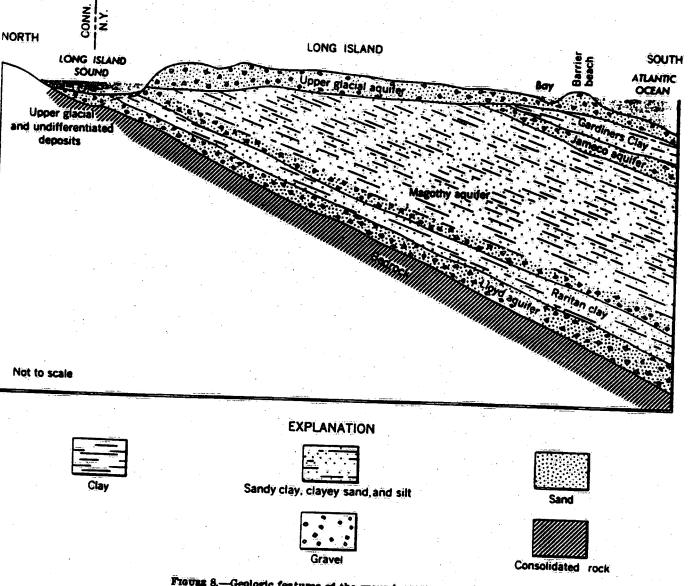
HYDROLOGIC FEATURES OF THE GROUND-WATER RESERVOIR

The overall hydrogeologic setting of Long Island was described in considerable detail by Veatch (1906), Fuller (1914), and Suter, De Laguna, and Perlmutter (1949). The geology and related hydrology of several smaller areas of Long Island have been studied in greater detail by others, including De Laguna (1963),

Isbister (1966), Lubke (1964), Lusczynski and Swarzenski (1966), Perlmutter and Geraghty (1963), Pluhowski and Kantrowitz (1964), and Swarzenski

Long Island is underlain by consolidated bedrock. which, in turn, is overlain by a wedge-shaped mass of unconsolidated rock materials (fig. 8).1 These materials, which constitute Long Island's ground-water reservoir, consist primarily of a series of Pleistocene glacial deposits and Cretaceous fluvial or deltaic deposits composed of gravel, sand, silt, clay, and mixtures thereof. The Cretaceous deposits were eroded by

The actual dip of the upper bedrock surface is slightly less than 1. to the southeast. The much greater inclination of the bodrock surface and the Magothy aquifer shown in agure 8 is due to the large verticalscale exaggeration of this cross section.



Frouzz 8.—Geologic features of the ground-water reservoir.

# HYDROLOGY AND SOME EFFECTS OF URBANIZATION ON LONG ISLAND, NEW YORK

TABLE 2.—Summary of the rock units and their water-bearing properties, Long Island, N.Y.
[After McClymonds and Franks, 1971]

	1	1	1				
errica.	Series	Geologie unit	Hydro- geologie unit	Approxi- mate maximus thickness (feet)	from	Character of deposits	Water-bearing properties
	Holocens	Artificial fill, sait marsh deposits, stream alluvium, and shoretine deposits.	Holocene deposits	50		Sand, gravel, clay, silt, organic ma peat, loam, and shells. Colors are gray, brown, green, blac and yellow. Holoceno artificial-fill deposits gravel, cand, clay, and rubbish.	beaches yield fresh water at shallow depths, brackish to miter
Galernary	Pleistonene	Upper Pleistocene deposits	Upper glaceni aqualer	.600	0-40	Till (mostly along north shore and menains) composed of clay, san gravel, and boulders. Forms Harbillill and Ronkenbouna termin moraines. Outwash deposits (mostly betwee and south of terminal moraine but also interlayered with till consist of quartens mand, fine to very coarse, and gravel, public to boulder sized. Olisciolacustrina deposits (mostly it contral and eastern Long Island and marine clay (locally along south shore) consist of all, clay, and some sand and gravel layers; includes "26 foot clay" in southern Nassa County and Queens County. Colors are mainly gray, brown, and yellow; silt and clay locally are grayith green. Contains shells and plant remains generally in floor grained bods; also contains Forumentings. Contains shells and plant remains generally in floor grained bods; also contains Forumentings.	Till is poorly permeable; commonly causes perched-water bodies and impedes downward percelation of water to underlying beds.  Outswash deposits are moderately to highly permeable; specific especities of wells tapping them range from about 10 to more than 200 gpm per foot of drawdown. Good to anselent infiltration characteristics.  Oliniciateustrine and marine cisy deposits are mostly poorly permeable, but locally have thin mederately permeable species of and and gravel; generally retard downward percontion of ground water, except near the sherelines. Till and marine deposits locally retard mit-water encroschment.
		Gardiners Clay  Unconformity?	Gerdiners Clay	209	80-000	Clay, slit, and few layers of and and gravel.  Claim are grayith green and brown.  Contains marine shells, Fornaminifera, and lignite; also glassensite, locally, and lignite; also glassensite, locally, and lignite; also glassensity is 40-40 ft below mean sea level.  Occurs in Kings and Queens County, and Suffolk County; similar clay occurs in bursel valleys near north shore.	layer for underlying Jameso squiler. Locally, mand layers yield small quantities of water.
		Jamese Gravel	Jamece aquiler	200	50-580	Sand, fine to very coarse, and gravel to large-pubble star; few layers of clay and silt. Gravel is composed of crystalline and sodimentary recks. Cotor is mostly dark brown. Cotor is mostly dark brown. Contains chlorite, blottle, muscovite, hornblende, and feldspar as accou- sory minerals. Occurs in Kings and Queens Counties, and southern Nassau County; similar deposits occur in buried valleys near nerth shore.	Moderately to highly permeable; contains mostly fresh water, but bracktish water and water with high free content locally in southers Queens County. Specific capacities of wells in the Jameso range from about 20 to 180 gpm per foot of drawdown.
tiary(f) Pi	liocene(?)	Mannette Gravel	(Commonly included with upper glacial aquifer.)	300	0-120	Gravel, fine to coarse, and lenses of sand; scattered clay lenses. Colors are white, yellow, and brown. Occurs only mar Namea-Suffeit County border near center of bland.	Highly permeable, but occurs mostly above water table. Excellent infiltration characteristics.
Accounts (manufacture)		Magnithy Permation	Magothy aquifer	1, 100	0-600	send, fine to medium, clayer in part; interbedded with lensus and layers of coarse sand and sandy and solid clay. Gravel is common in besal 50-200 ft. Sand and gravel are quartzees. Lignite, pyrite, and iron oxide concretions are common; muscovite, magnetite, rutile, and garnet are accessory minerals. clore are gray, white, red, brown, and yellow.	Most layers are poorly to moderately permeable; some are highly permeable iscally. Specific capacities of wells in the Magothy generally range from I to about 30 gpm per foot of drawdown, rarely are as much as 50 gpm per it. Water is unconfined in upperment parts, elsewhere is confined, water is generally of excellent quality but has high iron content locally along north and south sheres. Constitutes principal aquifer for public-supply wells in western Long island, except Kings County where it is mostly absent. Has been invaded by salty-ground water locally in southwestern Nasseu County and

TABLE 2.—Summary of the rock units and their water-bearing properties, Long Island, N.Y.—Continued

system.	Series	Gee	logic unit	Hydro- geologic unit	Approxi- mate maximum thickness (feet)	Depth from land Rurface to top (fret)	Character of deposits	Water-bearing properties		
	•	Unco	niormity——							
Cretaceous	Upper Cretaceous	Raritan	Clay mem- ber	Raritan clay	300	70±1, <b>600</b>	Clay, solid and silty; few lenses and layers of mand; little gravel, Lignite and pyrite are common. Colors are gray, red, and white, commonly variegated.	Poorty to very poorty permeable: constitutes confining layer for under- lying Lloyd squifer. Very lew wells produce appreciable water from these deposits.		
		Forma- tion	Lloyd Sand Mamber	Lloyd aquifer	500	200-1, 800	Sand, fine to course, and gravel, commonly with clayey matrix; some leanes and layers of solid and sitty clay; contains thin lightle layers and iron concretions locally. Locally, has gradational content with overlying Baritan clay. Sand and most of gravel are quartenes. Colors are yellow, gray, and white; clay is red locally.	Poorly to moderately permeable. Specific capacities of wells in the Lieyd generally range from 1 to about 28 gpm per feet of drawdown, rarely at a se much as 80 gpm per ft. Water is confined under artesten pressure by overlying Earttan clay; generally of another quality but has high from content totally. Has been toveded by saity ground water totally in necks near north above, where aquifer is mostly shallow and overtying clay discontinuous. Called deep confined equifer is some earlier reports.		
Precumbrian			edreck	Bedreck		0-2,700	Crystalline metamorphic and ignous rocks: museovite-biotite schrst, gness, and granite. A soft clayey some of weathered bedrock locally is more than 100 ft thick.	Poorty permeable to virtually im- permeable; constitutes virtually the lower boundary of ground-water reservoir. Some hard, frush water is contained in joints and fractures, but is improsticable to develop at most places; however, a few water near the western edges of Queens and Eliga Counties obtain water from the bodreck.		

The fresh-salt water interface is not a sharp boundary. The horizontal distance over which the dissolved-solids content of ground water changes from completely fresh to completely salty is generally on the order of 2-3 thousand feet near the south shore of Long Island. Over this distance, the dissolved-solids content of the ground water increases at first gradually in the direction of the salty ground water and then more rapidly.

The fresh-salt water interface is a complex streamline surface, and fresh ground water discharging into the ocean and bays moves parallel to the interface and not across it. The hydrodynamics of a stable interface and, to an even greater degree, an unstable interface that changes position in response to changes in head within the ground-water reservoir, is complicated and beyond the scope of this report. (See Lusczynski, 1961; Cooper, 1964; and Kohout, 1964.)

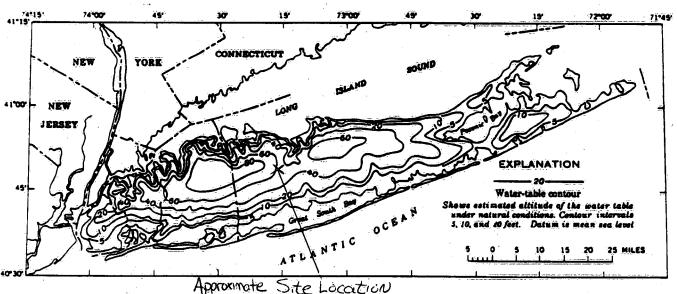
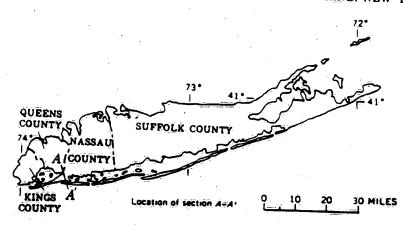


Figure 9.—Estimated average position of the water-table under natural conditions.



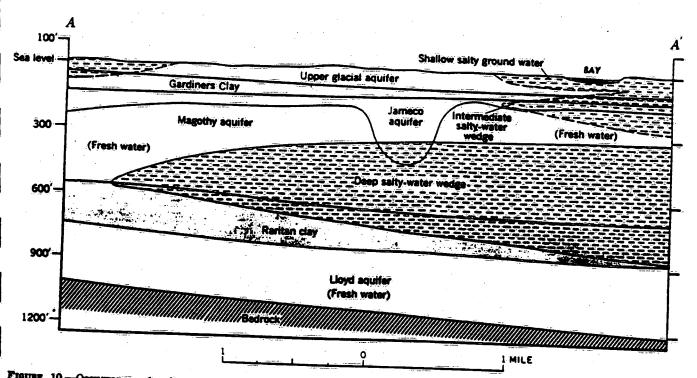


Figure 10.—Occurrence of salty ground water in southwestern Nassau County, in 1961. Adapted from Luscaynski and Swarzenski (1966, pl. 3).

The top of the bedrock surface, which outcrops in western Queens County, dips southeast on the average bout 65 feet per mile, or slightly less than 1°, to an estimated depth of about 2,000 feet in south-central Suffolk County (fig. 11). The number of control points in the bedrock surface, particularly in Suffolk County, a small; therefore, the surface undoubtedly is more irregular than is indicated in figure 11.

For practical purposes the bedrock surface is the impervious bottom of the ground-water reservoir. Hydraulically, therefore, the top of the bedrock is a stream surface; ground water flows parallel to the edrock and not across it, and equipotential lines or surfaces intersect the bedrock at right angles.

Island are ground-water drains, and the ground water continually discharges into these parts under natural conditions. Therefore, in relation to the ground-water reservoir, the streams are discharging potential boundaries. The potential at a given point on the stream is equal to the altitude of the stream at that point. Thus, the potential along the stream channel varies continuously from the altitude of start of flow of the stream to the altitude of the surrounding bay or ocean.

The approximate location and altitude of the points of start of flow for several streams in June 1967 are shown in figure 3. Because ground-water levels and

# HYDROLOGY AND SOME DEFECTS OF URBANIZATION ON LONG ISLAND, NEW YORK

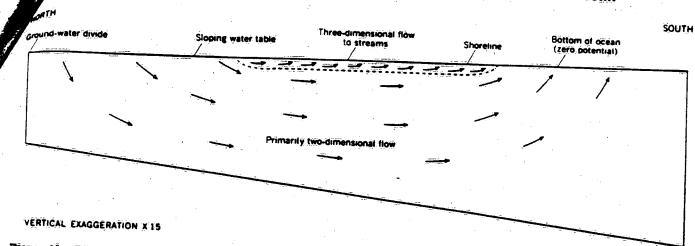
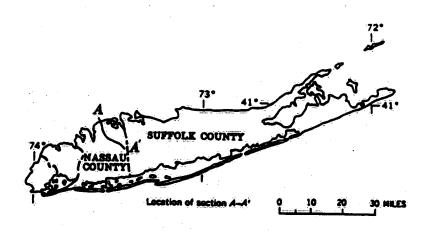


Figure 19.—Diagrammatic cross section of the southern half of the ground-water reservoir showing the part of the reservoir with primarily two-dimensional flow and the part of the reservoir with three-dimensional flow to streams.



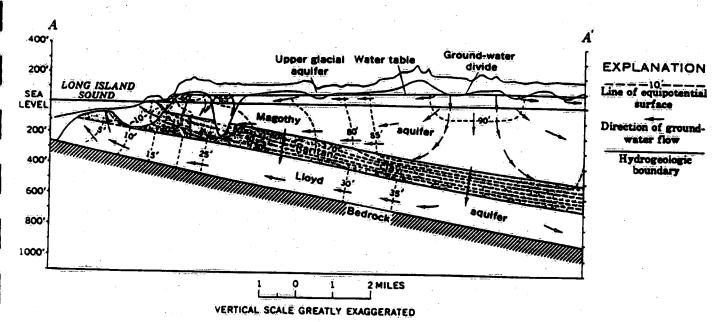
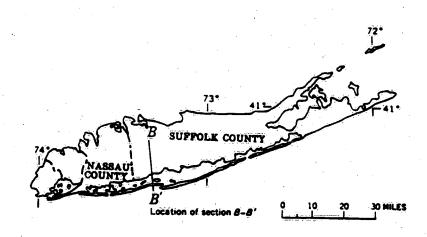
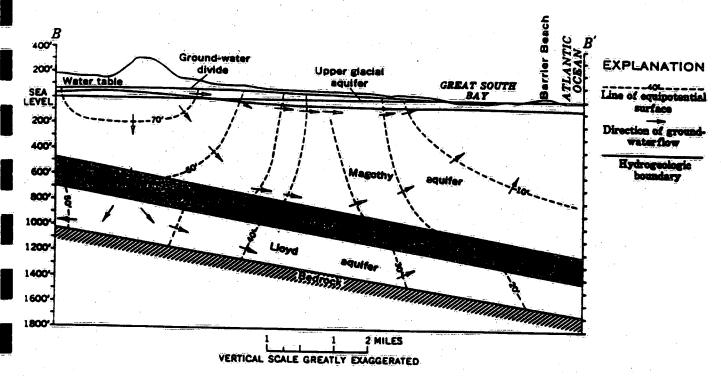


Figure 20.—Geohydrologic section of the ground-water reservoir in northeastern Nasmu County in March 1961. Adapted from Isblater (1966, fig. 11).





Frounz 21.—Geohydrologic section of the ground-water reservoir in southwestern Suffolk County in October 1980. Adapted from Pluhowski and Kantrowitz (1984, fig. 13).

Island. The presence of the salty ground water results in several salt-fresh water interfaces at various depths in the Long Island ground-water reservoir. As stated previously, these interfaces are dynamic boundaries that change position in response to changes in head within the ground-water reservoir. The positions of these interfaces are undoubtedly at least partly related to the location of the relatively permeable and impermeable layers in the ground-water reservoir.

#### DISCHARGE FROM THE GROUND-WATER RESERVOIR

The main elements of discharge from the ground-water reservoir are seepage to streams and springs, ground-water evapotranspiration, and subsurface outflow (fig. 13).

#### STREAMFLOW AND SPRINGFLOW

Those aspects of streamflow that are emphasized in this report are the annual and daily streamflow from the water-budget area, streamflow in the near-

REFERENCE NO. 13

[6560-01]

#### (FRL 910-31

## AQUIFERS UNDERLYING NASSAU AND SUFFOLK COUNTIES, NEW YORK

#### Determination

Notice is hereby given that pursuant to Section 1424(e) of the Safe Drinking Water Act (42 U.S.C. 300f, 360h-3(e); 88 Stat. 1650 et seq.; Pub. L. 93-523) the Administrator of the Environmental Protection Agency has determined that the aquifer system underlying Nassau and Suffolk Counties, Long Island, New York, is the principal source of drinking water for these counties and that, if the aquifer system were contaminated, it would create a significant hazard to public health.

#### BACKGROUND

The Safe Drinking Water Act was enacted on December 16, 1974. Section 1424(e) of the Act states: "If the Administrator determines, on his own initiative or upon petition, that an area has an aquifer which is the sole of principal drinking water source for the area and which, if contaminated, would create a significant hazard to public health, he shall publish notice of that determination in the FEDERAL REGISTER. After the publication of any such notice, no commitment for Federal financial assistance (through & grant, contract, loan guarantee, or otherwise) may be entered into for any project which the Administrator determines may contaminate such

aquifer through a recharge zone so as to create a significant hazard to public health but a commitment for Federal financial assistance may, if authorized under another provision of law, be entered into to plan or design the project to assure that it will not so contaminate the aquifer."

On January 21, 1975, the Environmental Defense Fund petitioned the Administrator to designate the aquifers underlying Nassau and Suffolk Counties. Long Island, New York. as a sole source squifer under the provisions of the Act. A notice of receipt of this petition, together with a request for comments, was published in the Feneral Register. Thursday, June 12, 1975. Written comments were submitted by the Environmental Defense Fund (EDF) on August 7, 1975, supporting their petition. A letter from the Director of the Nassau-Suffolk Regional Planning Board, dated October 1, 1976, requested that designation be delayed until after the completion of the areawide waste management (208) planning process for Long Island.

Because of the limited response to the FEDERAL REGISTER notice. EPA issued a press release and mailed an information sheet to elected officials and environmental groups on Long Island in March 1977. In addition, a presentation was made to the Citizens Advisory Committee (CAC) of the 208 planning agency and to the executive committee of the Long Island Water Conference. In response to these activities EPA received three comments: a letter from EDF questioning why project review would exclude direct Federal projects, a letter from a member of the East Hampton Planning Board expressing support for the designation, and a letter from the CAC requesting that designation be delayed until after the completion and approval of the Long Island 208 plan.

In considering the comments received, we could not agree with the letters requesting further delay since we do not believe that the review process under Section 1424(e) will constrain the options of 208 planning.

On the basis of the information which is available to this Agency, the Administrator has made the following findings, which are the basis for the determination noted above:

(1) The aquifers underlying Nassau and Suffolk Counties are the sole or principal drinking water source for the area. They supply good quality water for about 2.5 million people. Current water supply treatment practice for public supplies is generally limited to disinfection for drinking purposes, with some plants capable of nitrate removal. There are also numerous private sources. There is no alternative source of drinking water supply which could economically replace this aquifer system.

(2) The aquifer system is vulnerable to contamination through its recharge zone. Since contamination of a ground-water aquifer can be difficult or impossible to reverse, contamination of the the aquifer system underlying Nassau and Suffolk Counties. New York, would pose a significant heard to those people dependent on the aquifer system for drinking purposes.

Among the determinations which the Administrator must make in connection with the designation of an area under Section 1424(e) is that the area's sole or principal source aquifer or aquifers, "if contaminated, would create a significant hazard to public health . . . Obviously, threats to the quality of the drinking water supply for such a large population could create a significant hazard to public health. The EPA does not construe this provision to require a determination that projects planned or likely to be constructed will in fact create such a hazard; it is sufficient to demonstrate that approximately 2.5 million people depend on the squifer system underlying Nassau and Suffolk Counties as their principal source of drinking water, and that the aquifer system is vulnerable to contamination through its recharge zone.

Section 1424(e) of the Act requires that a Federal agency may not commit funds to a project which may contaminate the aquifer system through a recharge zone so as to create a significant hazard to public health. The recharge zone is that area through which water enters into the aquifer system. Because of groundwater movement within these aquifers, the recharge zone is considered to be the entire area of Nassau and Suffolk Counties. However, both horizontal and vertical boundaries of the recharge zone are discussed in the background document under the section entitled "Area of Consideration."

The data upon which these findings are based are available to the public and may be inspected during normal business hours at the office of the Environmental Protection Agency Region II. 26 Federal Plaza. New York, New York 10007. It includes a support document for designation of the aquifers underlying Nassau and Suffolk Counties, New York, and maps of the area within which projects will be subject to review.

A copy of the above documentation is also available at the U.S. Waterside Mail. Environmental Protection Agency, Public Information and Reference Unit, Room 2922, 401 M Street S.W., Washington, D.C. 20460.

The EPA has issued proposed regulations for the selective review of Federal financially assisted projects which may contaminate the squifer system underlying Nassau and Suffolk Countles, New York, through the recharge

zone so as to create a significant hazard to public health. These proposed regulations were published in the Frankl Register issue of September 29, 1977, and public comments were requested. They will be used as interim guidance for project review until their promulgation during 1978.

EPA. Region II. is working with the Federal agencies which may in the near future fund projects in the area of concern to EPA to develop interagency procedures whereby EPA will be notified of proposed commitments for projects which could contaminate the bicounty area's sole source aquifer system. Although the project review process cannot be delegated, the Regional Administrator in Region II will rely to the maximum extent possible upon any existing or future State and local control mechanisms in protecting the ground-water quality of the aquifer system underlying Nassau and Suffolk Counties, New York, Included in the review of any Federal financially assisted project will be coordination with the State and local agencies. Their determinations will be given full consideration and the Federal review process will function so as to complement and support State and local mechanisms

Dated: June 12, 1978.

Douglas M. Costle. Administrator. (FR Doc. 78-17067 Filed 6-20-78; 8:45 am) REFERENCE NO. 14

# Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in the July 16, 1982. Federal Register

United States
Environmental Protection
Agency

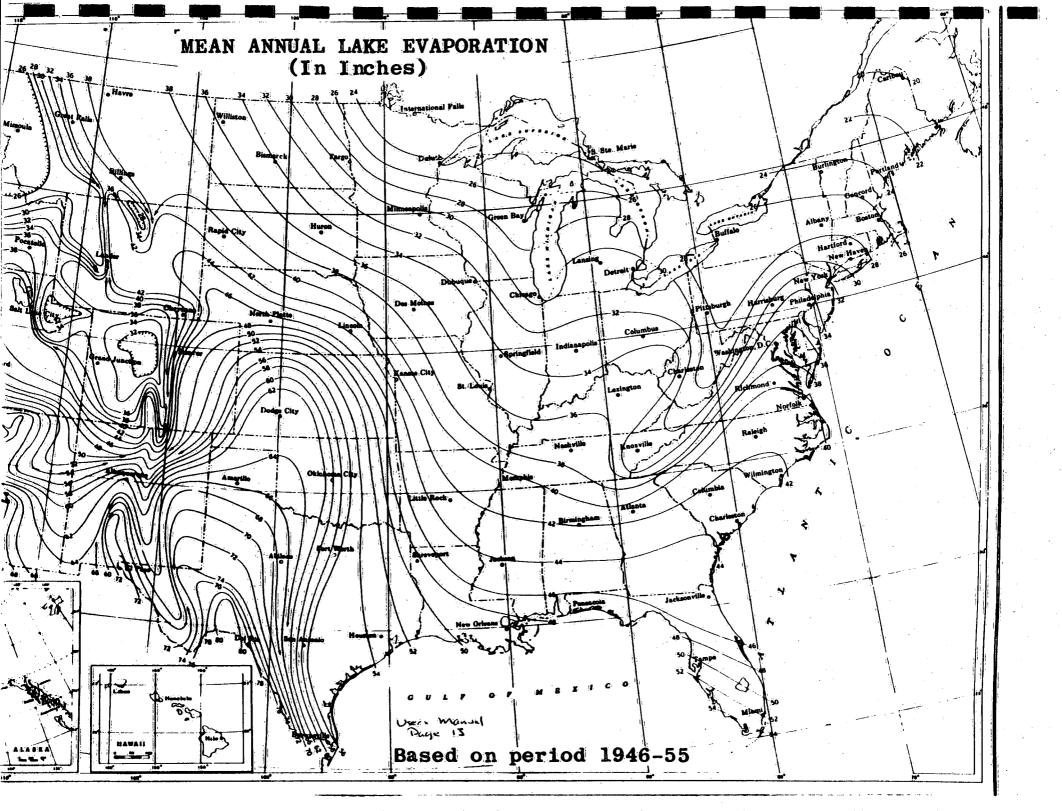
TABLE 2
PERMEABILITY OF GEOLOGIC MATERIALS\*

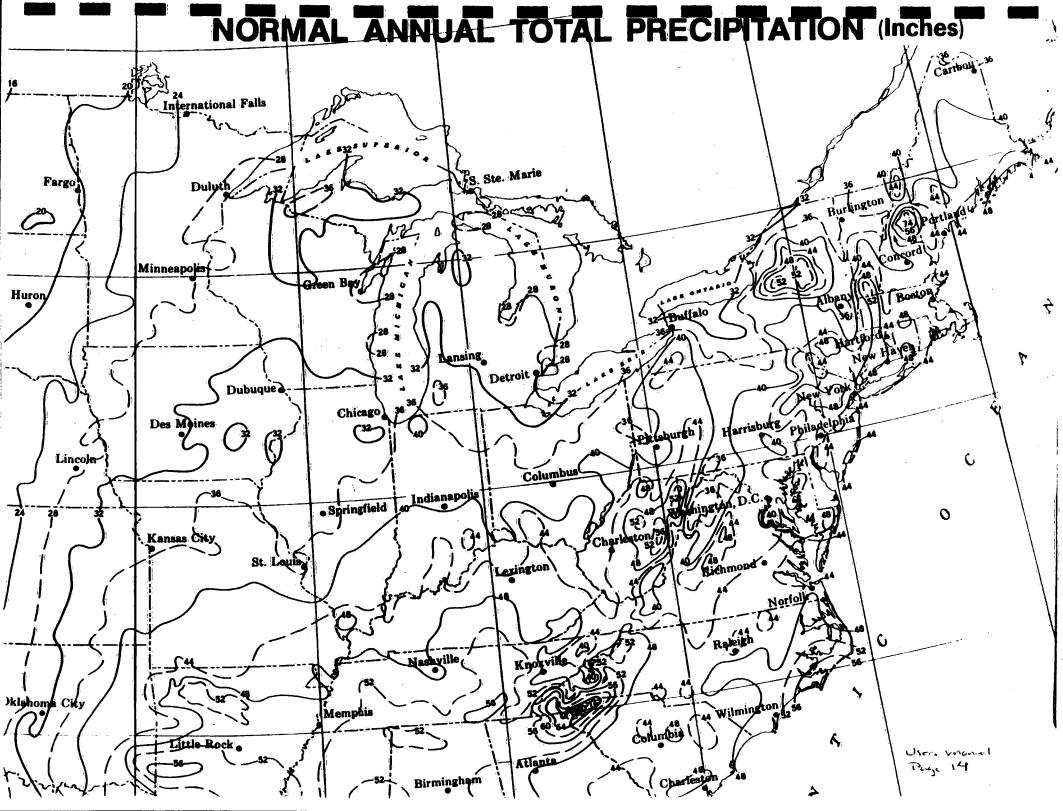
Type of Material	Approximate Range of Hydraulic Conductivity	Assigned Value
Clay, compact till, shale; unfractured metamorphic and igneous rocks	<10 <sup>-7</sup> cm/sec	0
Silt, loëss, silty clays, silty loans, clay loans; less permeable limestone, dolomites, and sandstone; moderately permeable till	10 <sup>-5</sup> - 10 <sup>-7</sup> cm/sec	1
Fine sand and silty sand; sandy loans; loany sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	10 <sup>-3</sup> - 10 <sup>-5</sup> cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable baselt and laves; karst limestone and dolomite	>10 <sup>-3</sup> cm/sec	ä

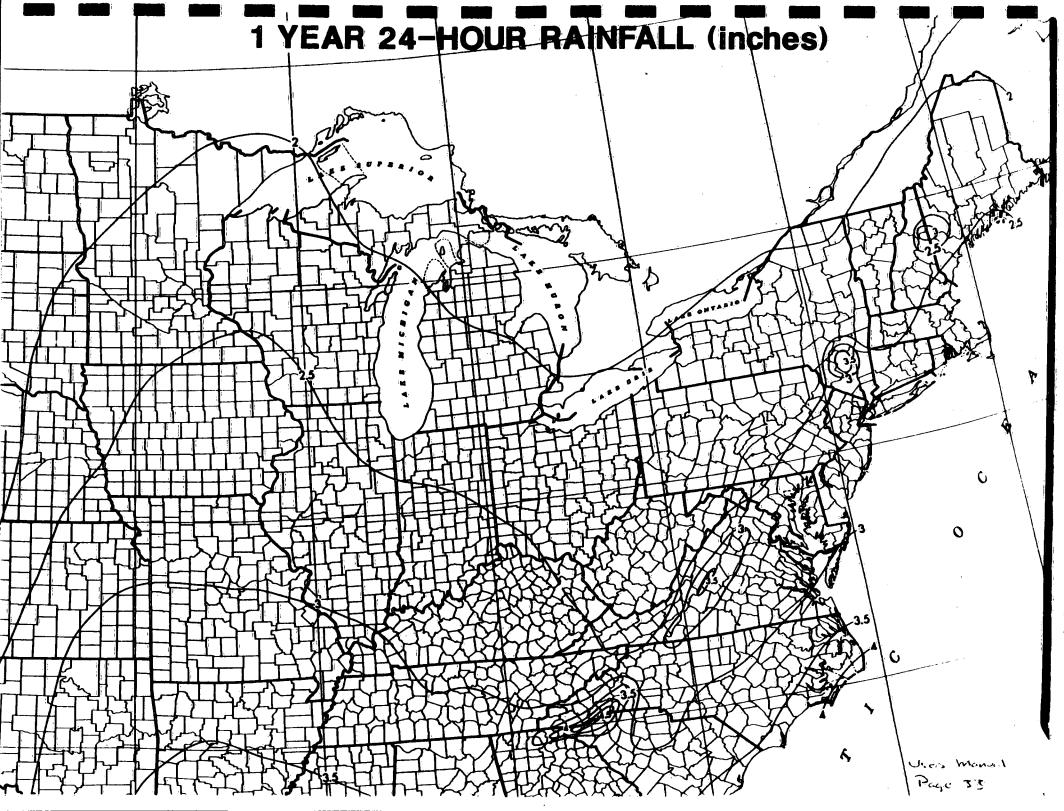
#### \*Derived from:

Davis; S. H., Porosity and Permeability of Natural Materials in Flow-Through Porous Media, R.J.M. DeWest ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Frentice-Hall, Inc., New York, 1979

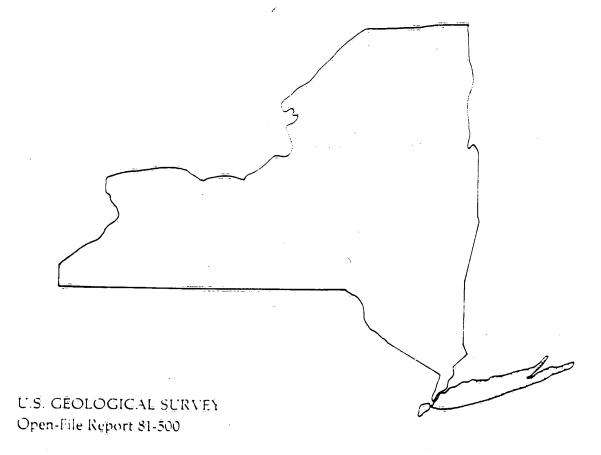






REFERENCE NO. 15

Hydrogeologic Data from Selected Wells and Test Holes in Suffolk County, Long Island, New York, 1972-80



Prepared in cooperation with SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES SUFFOLK COUNTY WATER AUTHORITY



# HYDROGEOLOGIC DATA FROM WELLS AND TEST HOLES IN SUFFOLK COUNTY, LONG ISLAND, NEW YORK, 1972-80

Вy

Richard K. Krulikas

#### **ABSTRACT**

The population of Suffolk County, New York, an area of 922 square miles, has increased rapidly, from less than 200,000 in 1940 to about 1.3 million in 1978. Ground-water pumpage has increased from an average of 42 million gallons per day in 1950 to about 257 million gallons per day in 1978. To help supply the hydrologic information needed to anticipate and prevent shortages, this report presents hydrogeologic and well-completion data on over 700 wells and test holes.

#### INTRODUCTION

Suffolk County, in eastern Long Island, N.Y., is about 90 miles long and has a maximum width of about 20 miles (fig. 1). Land area of the county is about 922 square miles and constitutes approximately two-thirds of Long Island's 1,411 square-mile area. The population of Suffolk County has increased sharply from less than 200,000 in 1940 to about 1.3 million in 1978 (Long Island Lighting Company, Population Survey, January 1978). The growth has occurred mostly in the western part of the county; the eastern part has remained mainly rural.

The freshwater supply for the county is obtained solely from the underlying ground-water reservoir. Ground-water pumpage increased from an average of 42 Mgal/d in 1950 to about 257 Mgal/d in 1978 (R. J. O'Reilley, New York State Department of Environmental Conservation, oral commun., March 1980). The major hydrogeologic units in the ground-water reservoir are summarized in table 1; the vertical relationship of these units is depicted in a generalized section in figure 2.

The recent population growth in Suffolk County has given rise to a need for increased ground-water development. To help supply the hydrologic information needed to anticipate and prevent shortages, the U.S. Geological Survey is participating in a cooperative program of water-resources studies with the Suffolk County Water Authority and the Suffolk County Department of Health Services. Several reports have been published as a result of the cooperative program; among them are Jensen and Soren, 1971; Soren, 1971; and Jensen and Soren 1974.

Table 2 presents hydrogeologic units and well-completion data on 700 wells and test holes in Suffolk County; these include most of the pertinent wells and test holes drilled in Suffolk County since 1972 and a few older wells of importance that were not mentioned previously. Locations of wells and test holes are shown on plate 1.

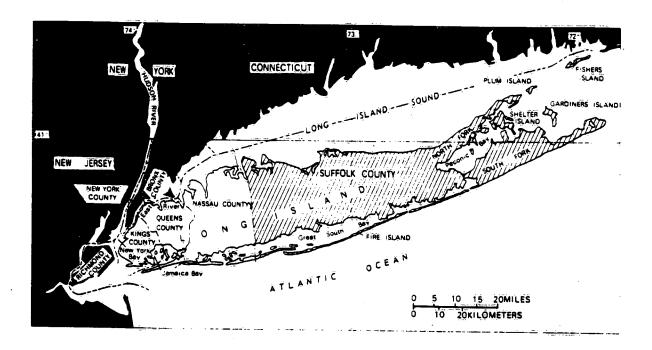


Figure 1.--Map of Long Island showing location of Suffolk County.
(Modified from Jensen and Soren, 1971, p. 3.)

#### Acknowledments

The author extends thanks to the Suffolk County Water Authority, the Suffolk County Department of Health Services, and the New York State Department of Environmental Conservation, particularly to R. J. O'Reilly, engineering technician, whose cooperation in providing well-completion data was essential for preparation of the report.

The author also thanks the well-drilling companies for providing well information, drill cuttings, and split-spoon core samples used in determining geologic correlations. These companies include Delta Well Company, Inc., Central Islip, N.Y.; East Coast Well Drilling and Supply Company, Inc., Riverhead, N.Y.; Lauman Company, Inc., Farmingdale, N.Y.; Strata Well Corporation, Islip, N.Y.; and Howard McMahon, Inc., Amagansett, N.Y.

#### GEOHYDROLOGY

Geology and hydrology of Long Island are summarized in numerous reports, notably Veatch and others (1906), Fuller (1914), Suter and others, (1949), Cohen and others (1968), and Jensen and Soren (1974).

The ground-water reservoir on Long Island lies within a thick sequence of unconsolidated deposits underlain by Precambrian (?) basement complex (fig. 2). The unconsolidated materials consist of a southward-dipping wedge of Cretaceous deposits overlain by a relatively thick layer of glacial outwash and morainal deposits of Pleistocene age. Characteristics of the geologic and hydrogeologic units are summarized in table 1.

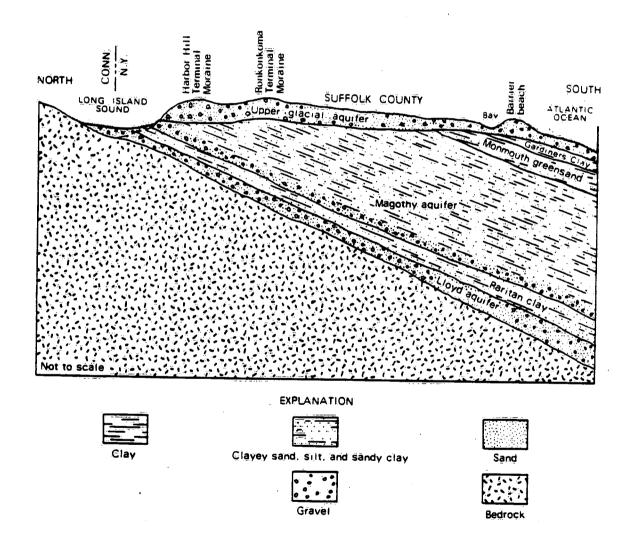


Figure 2.--Generalized section showing major hydrogeologic units in Suffolk County. (From Cohen and others, 1968.)

Table 1 .-- Major hydrogeologic units in Suffolk County, N.Y.

Hydrogeologic unit <sup>1/</sup>	Geologic name	Approximate thickness (feet)	Description and water-bearing character
Upper glacial aquifer	Holocene and upper Pleistocene deposits, and Mannetto Gravel	0 + 750	Mainly brown and gray sand and gravel of moderate to high hydraulic conductivity; also includes deposits of clayey glacial till and lacustrine clay of low hydraulic conductivity. A major aquifer.
Gardiners Clay	Gardiners Clay	0 - 75	Green and gray clay, silt, clayey and silty sand, and some interbedded clayey and silty gravel; of low hydraulic conductivity. Unit tends to confine water in underlying aquifer.
Monmouth greensand	Monmouth Group, undifferentiated	0 - 200	Interbedded marine deposits of dark-gray, olive-green, dark-greenish-gray, and greenish-black glauconitic and lignific clay, silt, and clayey and silty sand. Unit has low hydraulic conductivity and tends to confine water in under-lying aquifer.
Magothy aquifer	Matawan Group and Magothy Formation, undifferentiated	0 - 1,100	Gray and white fine to coarse sand of moderate hydraulic conductivity. Generally contains sand and gravel beds of low to high hydraulic conductivity in basal 100 to 200 feet. Contains much interstitial clay and silt, and beds and lenses of clay, of low hydraulic conductivity. A major aquifer.
Raritan Clay	Unnamed clay member of the Raritan Formation	0 - 200	Gray, black, and multicolored clay and some silt and fine sand. Unit has low hydraulic conductivity and tends to confine water in underlying aquifer.
Lloyd aquifer	Lloyd Sand Member of the Raritan Formation	0 - 500	White and gray fine-to-coarse sand and gravel of moderate hydraulic conductivity and some clayey beds of low hydraulic conductivity. Not highly developed as an aquifer.
Bedrock	Undifferentiated crystalline rocks	Not Known	Mainly metamorphic rocks of low hydraulic conductivity; surface generally weathered; considered to the bottom of the ground-water reservoir. Not a source of water in Suffolk County.

Adapted largely from Cohen and others (1968, p. 18).

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Table 2. Hydrogeologic units and well completion data from selected wells and test holes in Suffolk County, New York.

EXPLANATION OF COLUMNAR DATA AND ABBREVIATIONS

#### Well Number

Well numbers are assigned by the New York State Department of Environmental Conservation. A prefix letter S, which designates Suffolk County, is omitted from the well number; thus, the official number of well 40161, for example, is S 40161. Wells are listed in numerical order.

#### Location of Well

Locations of wells are given by map coordinates, based on latitude and longitude, as shown on plate 1. Map coordinates are based on a latitude and longitude grid system established for Long Island (Veatch and others, 1906; Jensen and Soren, 1971). In this system, 5-minute intervals of latitude are lettered consecutively from south to north, and 5-minute intervals of longitude are numbered consecutively from west to east. The grid coordinates for Suffolk County are shown along the margins of plate 1. Thus, a well whose map coordinates are DIS is in the grid square bounded by lat 40°45' and 40°50'N and long 72°55' and 72°50'W.

Wells are also numbered according to the national well-numbering system of the U.S. Geological Survey. This system locates wells to the nearest second of latitude and longitude and gives a sequence number to the well to denote the chronological order in which wells within a 1-second quadrangle were recorded. For example, in well number 404707N0731905.01 (S 18075), the first six numbers indicate latitude 40°47'07" North; the remaining numbers before the period indicate longitude 073°19'05". The 01 after the period is the sequence number. Thus this well was the first one recorded in the 1-second quadrangle defined by the latitude and the longitude.

#### Well depth

The figures give well depth or total depth of the drilled test hole, in feet below land surface.

## Hydrogeologic Unit Penetrated and Elevation of Unit Surface

Elevations of the tops of the hydrogeologic units penetrated by wells are given in feet above or below National Geodetic Vertical Datum of 1929. A minus (-) sign preceding the elevation figure indicates that the elevation is below National Geodetic Vertical Datum of 1929. The number in the "upper glacial aquifer" column is the elevation of the land surface at the well site. Absence of an elevation figure indicates that the test hole did not penetrate the unit.

#### Table 2. -- Explanation (continued)

#### Year Completed

Year completed refers to the year in which the well was reported to have been completed or accepted by the original well owner. It may not always be the year in which the well was actually drilled.

# Elevation of Land-Surface Datum (LSD) (feet above National Geodetic Vertical Datum of 1929)

The elevation of land surface at the well was estimated from U.S. Geological Survey 7-1/2-minute quadrangle topographic maps.

#### Use of Water

The following abbreviations indicate the primary purpose in 1977 for which the water from the well was reported to be used.

ARCD COM DOM ERPT	air conditioning commercial domestic	IND IRR OTHR	industrial irrigation other
FRPT INST	fire protection institutional	P.S.	public supply

#### Use of Well

The following abbreviations indicate the principal use of the well or the purpose for which the well or hole was drilled.

DEST	well destroyed	TEST	test hole
OBS	observation well	UNSD	well unused
RECH	recharge water	WTDR	withdrawal of water

## Screen Setting and Total Screen Length

The elevations of the top and bottom of the screened interval are given in feet above or below (-) National Geodetic Vertical Datum of 1929. The total length of screen or perforated pipe in that interval is given in feet. In some wells, screen was set at two or more intervals; in such cases the difference between the elevations of the two screen settings is different from the total screen length.

#### Diameter of Well

The diameter of the well is the inside diameter of the smallest casing at land surface, in inches.

#### Table 2.--Explanation (continued)

#### Water Level (feet below land-surface datum)

The water level given is the reported original static water level, in feet above or below land surface, when the well was completed.

#### Date of Measurement

The date of water-level measurement is given by month (M), day (D), and year (Y).

#### Lift Type

The following abbreviations indicate the type of pump or other conveyance known or assumed to have been used in 1977 to bring water to the surface.

CENT JÊT	centrifugal	TURB NONE	turbine
SUBM	submersible	OTHR	no pump in well some other type of
	· · · · · · · · · · · · · · · · · · ·		lift

#### Aquifer Developed

The following abbreviations indicate the hydrogeologic unit that yields water to the well. Where two or more units yield water to the well, the probable principal unit is given.

UPGLAC	Upper glacial aquifer
GARD	Gardiners Clay
MONMOUTH	Monmouth greensand
MAGOTHY	Magothy aquifer
RARITAN	Raritan clay
LLOYD	Lloyd aquifer

## Table 2.--Explanation (continued)

## Specific Capacity

The value in this column is the number of gallons per minute pumped from the well per foot of drawdown in the well, as reported by drillers.

#### Abbreviations

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atum
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			HYDROLOGIC UNIT PENETRATED AND ELEVATION OF UNIT SURFACE, IN FEET ABOVE OR BELOW NATIONAL GEODETIC VERTICAL DATUM OF 1929								
	tor	ation of well									
¥ell umber,	Map coord	Latitude and Longitude	Well depth (ft)	Coper glacial aquifer	Gardiners Claÿ	Monaguith greensand	Magochy aquifer	Raritan	Lloyd aqüifer	Bedrock	
3326	G <b>20</b>	-10229 0722957.01	92	50							
3327	<b>C20</b>	410022 0722936.01	44.	24							
3328	G2 1	410234 0722436.01	41	20							
3329	G2.0	-10140 0722816.01	74	30							
3330	H21	410706 0722032.01	52	15							
3331	H21	410753 0722055.01	70	47							
3332 3333	F19 F19	405843 0723243.01	45	25							
3334	F19	405924 0723423.01	7.4	51				,			
53335	GZ 0	405959 0723039.01	53	32							
	***	410304 0722627.01	37	16							
3336	G19	410017 0723155.01	42	18							
3337 3338	H22	410906 0721713.01	52	20							
3339	G20	410412 0722613.01	65	39							
3360	G20 E10	404722 0730305.01	7.98	50	-122		-140				
	510	-05032 0731628.02	703	141			- 88				
3361	E10	405133 0731559:01	521	148			- 75				
3497	D)1 Z	404950 0730850.01	173	90			=				
3498	DIZ	404950 0730850.02	721	90			-180				
3522	E-1-7	405230 0724300.01	137	167	- 69		- 81				
3593	E18	405124 0723536.03	161	4-7.							
3747	EIO	405140 0731910.01	453	171			-£17				
3851	E17	405230 0724300.02	291	167	- 69		- 81				
4099	E13	405029 0730321.01	703	170			- 90				
4155	C10	404326 0731735.01	721	38			- 97				
4162	E 10	405359 0731828.01	54.3	151							
54305	D12	404805 0730515.02	313	100	- 78		- 96				
4308	Dil	404759 0731225.01	797	109			-106				
54377 54473	B12	403936 0730525.01	630	5			-329				
54478	E13 F18	405030 0730321.03 405906 0723528.01	312	170	- 69		-130				
		403908 0723528.01	125	65			-4,81.				
4479	F18	405857 0723538.01	467	65			<b>⊸81</b>				
4731	C: 8	404210 0732502.02	423	45	- 38		- 53				
4957	DII	403822 0731550.01 404618 0731233.01	750 378	8	*		-117				
5028	E25	405332 0722420.01		50 50			- 74				
	-		161	30			-158				
5076 5094	F 18 E 9	405856 0723540.01	343	68							
5733	CIO	405122 0732327.01 404326 0731741.01	180	185							
6133	£10	405434 0731942.02	233	38			- 97				
6423	C 10	404418 0731718,01	333 800	70 50	<del>-</del> : 50		- 75				
6508	D13	· · · · · · · · · · · · · · · · · · ·					- /3				
6674	013	404542 0730133.01 404950 0730015.01	709	. 6	-116	-135	-184				
6980	F18	405935 0723548.01	179	107	-, 71		-				
7008	D10	404658 0731642.01	635	35 111			-285	-715	-875	#1015	
7354	E S.	405126 0732737.01	257	-50			-160			-	
7357	G26	410249 0715545.01	93								
7666	0 9	404604 0732458.01	270	32, 105		-110					
7723	C13	404322 0730450-01	807	38							
7748	T 8	405520 0732939.01	418	82			-152	300			
7979	F12	405614 0730515.01	582	100			-: 55	-282	-300		
7980	F13	405510 0730452.01	703	187					•		
8708	010	404936 0731525.01	423	132			- 98	÷573			
8755	£13	405052 0730205.01	252	240			- 16				
	E13	405342 0730307.01	723	130							
1761 1921	G25	410040 0720025.01		130			-165				

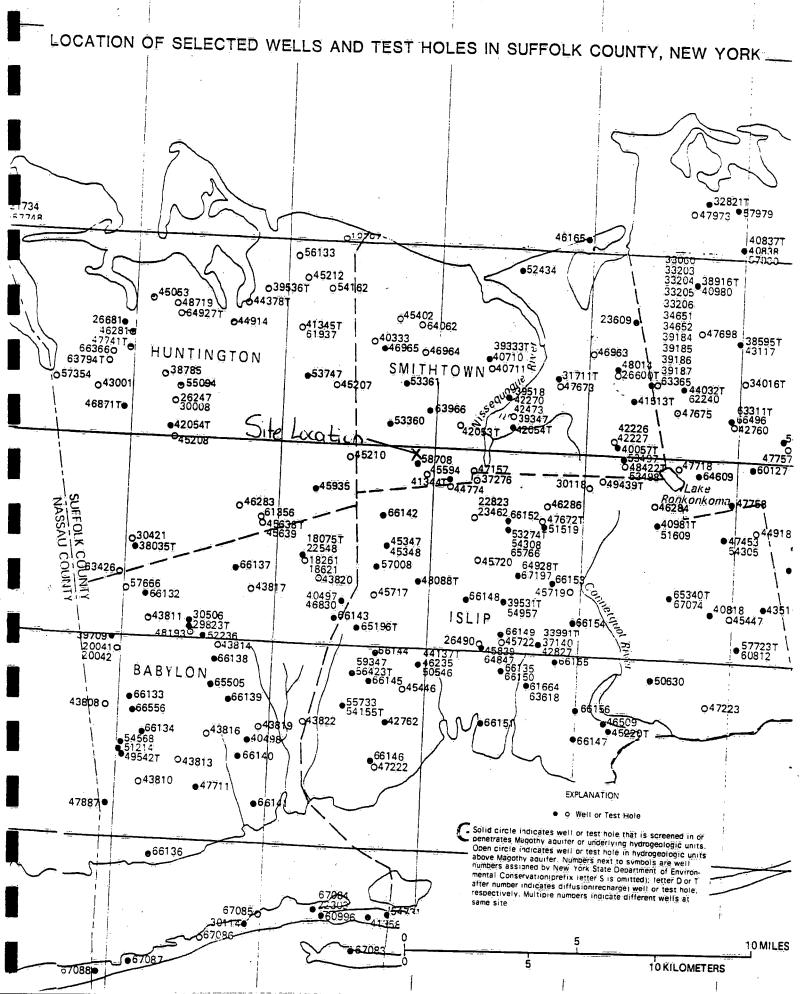
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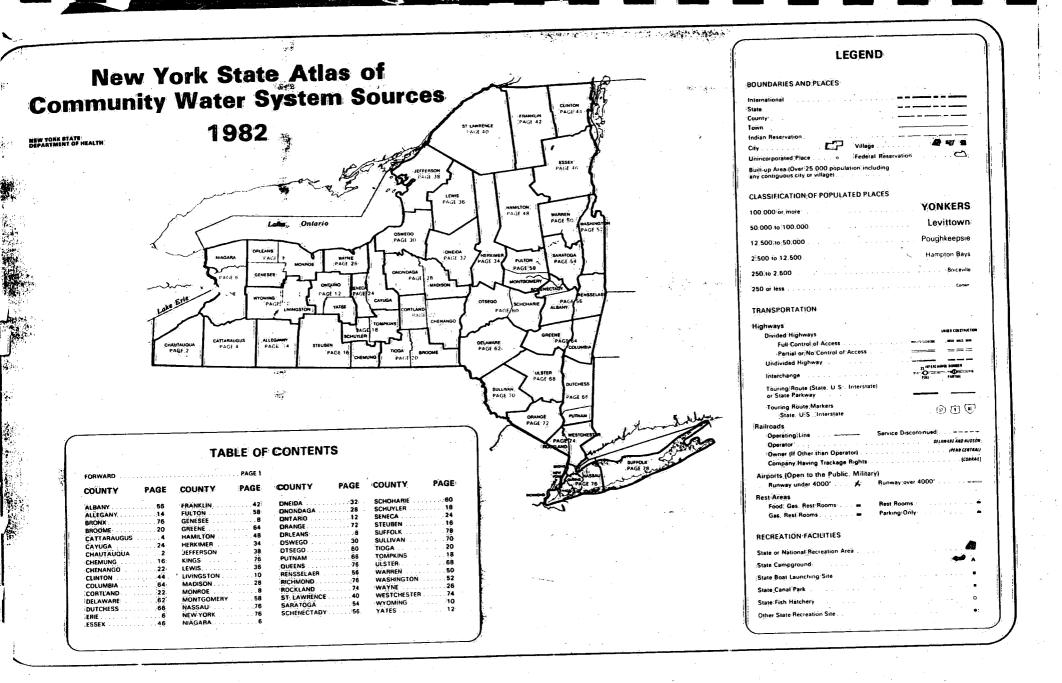
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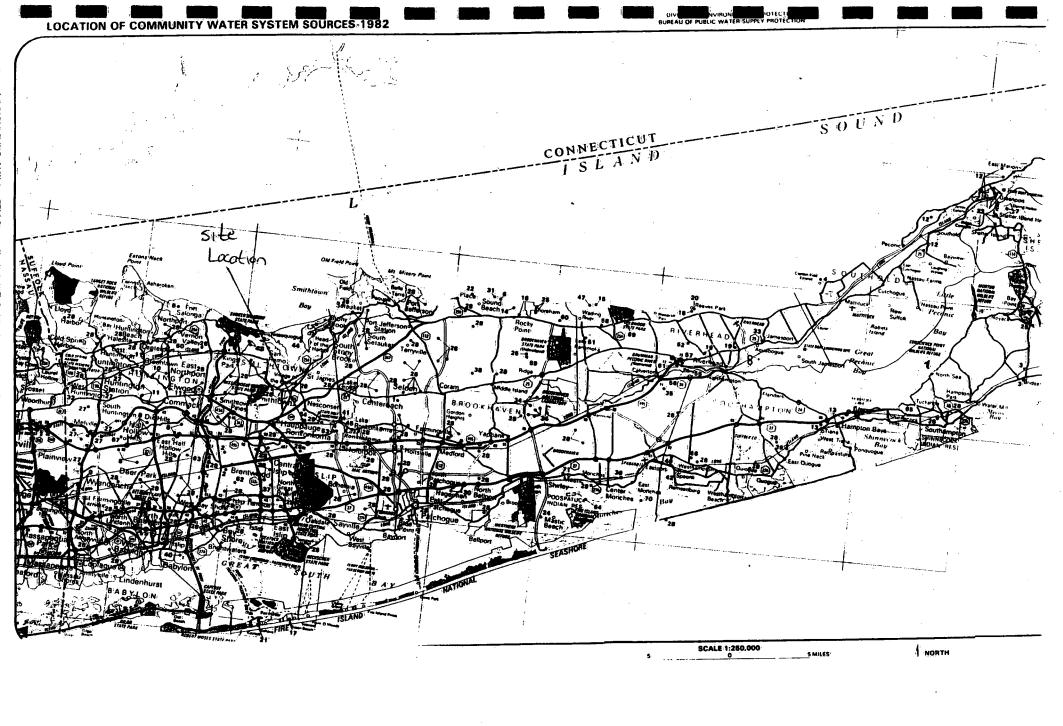
from selected wells and test holes in Suffolk County, New York.

earestwell

	WELL-COMPLETION DATA											
Well Number	Year Com- pleced	Elevation of LSD (ft above or below NGVD)	Use of Water	Use of Wejli	Screen Secting (ft above or below NGVD)	Total Screen Length (ft)	Diam of Well (in)	Water level (ft below LSD)	Date of Meas: (M=D=Y)	Life Type	Aquifer Devel- oped	Specifi Gapacit (GPM/ft
5 3 3 2 6	1974	60	UNSD	OBS	- 19 TO - 29	10					UPGLAC	
53327 53328	1974 1974	24 20	denu Genu	OBS	- 8 TO - 18 - 9 TO - 19	10	4				UPGLAC	
53329	1975	30	UNSD	OBS	- 26 TO - 41	15	8	•			UPGLAC	
5 3 3 3 0	1975	- 15.	UNSD	085	- 17 TO - 37	20	4				UPGLAC	
53331	1974	47	UNSD	OBS	- 11 TO - 21	10	4				UPCLAC	
53332	1974	25	UNSD	085	- 8 70 - 18	10	4				UPGLAC	
53333	1974 1974	51 32	UNSD	OBS	- 11 TO - 21	ίο	4				UPGLAC	
53335	1974	. 32	unsd Unsd	08S	- 9 TO - 19 - 9 TO - 19	10 10	4				UPGLAC	
33336	1974	ıä	UNS.D	OBS	- 12 TO - 22	10	4				UPGLAC	
53337	1975	20	UNSD	OBS	- 12 TO - 32	20	4				UPCLAC	
33338	1974	39	UNSD	OBS	- 14 TO - 24	10	, 4				UPGLAC	
53339 53360	1974 1975	50 141	UNSD P.S.	TEST	-407 TO -526	119	20	8O	02-27-75	TURS	MAGOTHY	•,
53361											HAGOTHY	76
33497	1975 1975	148 90	P.S. P.S.	WIDE	-289 TO -369 - 25 TO - 80	80	20	111	05-15-75	TURB	HAGOTHY	61
53498	1975	90	P.S.	VIDE	-573 TO -628	55 55	42 42			TURB	UPGLAC	
3522	1976	167	P.S.	WTDR	3.3 to made	**		•		TURB	MAGOTHY	
53593	1974	47	P.S.	HTDR	- 7Î ÎÖ -111	40	20	3,8	12-17-74		UPGLAC	
3747	1975	171	P.S.	VTDR	-199 TO -277	78	20	111	10-03-75	TURB	HAGOTHY	51
3831	1975	167	P.S.	WIDE						TURB	MAGOTHY	
4099	1975	170	UNSO	TEST				114	02-27-75		MAGOTHY	
54155 54162,	1975 1975	38 151	UNSD P.S.	TEST	-304 TO -374	70	20	130	03-18-75		HAGOTHY	82
54305	1975	100	P.S.	WTDE	-149 TO -210	4.					. –	
34308	1975	109	P.S.	VIDE	-613 TO -683	61 70	20	55 72	06-02-75 05-06-75	TURB	MAGOTHY	.26
34377	1975		P.S.	VTDE	-575 TO -625	30	12	10	04=03=75	TURS	MAGOTHY	50 20
54473	1975	170	P.S.	<b>VTDR</b>	- 78 TO -139	61	20	115	07-16-75	TURB	MAGOTHY	44
34478	1975	63	UNSD	TEST	- 29 TO - 60	31	12	56	03-31-75		HAGOTHY	6,6
4479	1975	65	UNSD	CBS	-392 TO -402	10	6 -			,	MAGOTHY	
54 <b>568</b> 54731	1975 1975	45 8	7.5.	VIDR	-293 TO -376	63	20	23	05-12-75	TURB	HAGOTHY	41
4937	1976	50	P.S. P.S.	WIDE	-691 TO -742 -268 TO -323	51 55	20	19	07-21-75		HAGOTHY	21
5028	1975	50	P.S.	VTDR	- 75 TO -110	33	10	43	08-01-75		UPGLAC	10 175
5076	1975	68	UNISD	UNSD							UPCLAC	
35094	1975	185	UNSD	UMSD			•				UPGLAC	
55733 56133	1975	38	P. S.	UTOR	-142 TO -192	50	20	14	09-25-75	TURS	MAGOTHY	56
56423	1976 1975	70 30	unsd Unsd	TEST	-157 TO -261	104	20	23 21	05-12-76		UPGLAC	108
6508	1976	6	UMSD	TEST		0					HACOTHY	
6674	1975	107	7.8.	VTDR	- 15 TO - 65	sŏ	20	36	12-26-75		UPGLAC	58
6980	1976	35	UNED	TEST	A	**			10:00577		LLOYD	•
7008	1976	iii	2.5.	WTDR	-418 TO -521	103	20	62	02-23-76	TURB	MAGOTHY	50
7354	1976	50	P.S.	WIDE	-163 TO -204	41	12	19	04::29::76	TURB	UPGLAC	48
7357	1976	32	UMSD	UMED	= 26 TO = 57	31	ΪŌ	29	03-18-76		UPGLAC	1'52
7666 7723	1976 1976	105 38	ARCD	UTUR TEST	-135 TO -165	30	. 8	43	08-10-76	TURB	UPGLAC	13
7748	1977	62	DOM	VTD	-331 TO -336	- 5	16	78	05-15-76	SUBM	HAGOTHY	ż
7979	1976	100	P.S.	WTDR	-389 TO -479	90	20	59	05-26-76	TURB	MAGOTHY	56
7980	1977	187	r.s.	VTDR	-443 TO: #513	70	20	1'44	01-03-77	TURE	MAGOTHY	24
8708	1976	132	P. S.	UTDR	-197 TO -257	60	20	81	09-28-76	TURB	HAGOTHY	50
8755 8761	1976 1977	240	DOM	VIDR	- 6 TO - 12	-6	4	_		SUZM	UPCLAC	
8921	1977	130 48	UNSD	UNSD	-522 TO -593 - 19 TO - 24	7.1	20	82	02-15-77		MAGOTRY	22
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## SUFFOLK COUNTY

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#### GRAPHICAL EXPOSURE MODELING SYSTEM

(GEMS)

USER'S GUIDE

VOLUME 2. MODELING

#### Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES AND TOXIC SUBSTANCES
EXPOSURE EVALUATION DIVISION
Task No. 3-2
Contract No. 68023970
Project Officer: Russell Kinerson
Task Manager: Loren Hall

#### Prepared by:

GENERAL SCIENCES CORPORATION 8401 Corporate Drive Landover, Maryland 20785

Submitted: December 1, 1986

#### GEMS> I

LATITUDE	40:	49: 2	LONGITUDE	73:15:53	1980 1	POPULATION	
KM 0.00-	400	. 40081	0 .810-1.60	1.60-3.20	3. 20-4. 80	4.80-6.40	SECTOR TOTALS
S 1	0		0 6135	27787	45904	61856	141682
RING TOTALS	O		0 6135	27787	45904	61856	141682
GEMS> 1		•	,				
MICROWAVE LATITUDE		R DEVICE	S INC. LONGITUDE	73:15:53	1980 l	lousing	

KM 	0.00400	.400810	.810-1.60	1.60-3.20	3.20-4.80	4.80-6.40	SECTOR TOTALS
S 1	0	0	1590	7365	11173	16772	36900
RING	•••	. 0	1590	7,36,5	11173	16772	36900

	Distance	Population	Housing
	1/4	0	0
	1/2	0	0
-	1	6135	1,590
	2	33,922	8955
	3	79,826	20,128
	4	141,682	36,900



#### PRELIMINARY ASSESSMENT OFF SITE RECONNAISSANCE INFORMATION REPORTING FORM

Date: February 22, 1989
Site Name: Microwque Power Devices Inc. TDD: 02-8902-0
Site Address: 330 Oser Avenue  Street, Box, etc.
Town Suffork County State
NUS Personnel: Name Discipline  Susan Anderson Environmental Scientist  Joe Overak Chemist
Weather Conditions (clear, cloudy, rain, snow, etc.):
Estimated wind direction and wind speed: Nownd
Estimated temperature: 390
Signature: Sugar Michigan Date: 2/22/89
Countersigned: Date: Date:

Site Name: Microwave Power Devices Inc. TDD: 02-8908	3-07
Site Sketch:	
Indicate relative landmark locations (streets, buildings, streams, expressions from which photos are taken.	tc.).
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Signature: Supom Anderson Date: 2-22-89	
Countersigned: Date: 223.39	

Date: 2-22=59
Site Name: Microuve Power Deu, ces, Inc. TDD: 09-8902-07
Notes (Periodically indicate time of entries in military time):
- amued out site 1440 hrs. The facility is
Iccater in a commercial complex Site
appears to be actue because & cook
parking lot. Located alongsice the northern side
of the halding is a long white a la
enclosed with a container
enclosed within a fence. There is a slight slope located on the eastern side of
the bodgless The ROSTERS SIDE of
the boilding. The site property is landscaped
- ONG CIMENY
Signature: Date: _2-22-89
Countersignature: Date: 3-33 59

Date: 2-22-89	•
Site Name: Microwale Cover Devices	o, IncTDD: <u>C2-5962-67</u>
Notes (Cont'd):	
Attach additional sheets if necessary. Provide and countersignature on each.	- 0
Countersignature:	Date: <u> </u>
Signature	Date: 2-23-59

	Date:	1-22-89			
	Site Name:	Microwave	Pawer Dec.	ces. Inc. TDD:	02-3902-07
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	Attach addition	onal sheets if i	necessary. Pi	rovide site name,	TDD number, signature,
			Fl.		
	Signature:	1 1/2	y derson	Date: _	2-22-89
	Countersignat	uré:	20100-	Date: _	2 23-87

# New York State Department of Environmental Conservation Building 40—SUNY, Stony Brook. New York 11794

(516) 751-7900



Thomas C. Jorling Commissioner

December 20, 1988

Ms. Diane Trube NUS Corp. 1090 King Georges Post Road Suite 1103 Edison, New Jersey 08837

Re: Farmingdale - Lindenhurst Sites

Dear Ms. Trube:

I have reviewed your request of 11/22/88, and have the following responses to your questions:

- 1. No "critical habitats" for federally listed endangered species have been designated for Long Island as of this date.
- 2. Please contact Mr. Philip Barbato, of our Water Unit, at 516-751-7900, ext. 226.
- 3. Please contact Mr. Charles Guthrie of our Freshwater Fisheries Unit at 516-751-7900, ext 263.

If I can be of further assistance, please do not hesitate to contact me at 751-7900, ext. 248.

Sincerely,

Michael S. Scheibel

Senior Wildlife Biologist

MSS/sjmr

		(	ground Mar	er Boute Work	Sheet	ler en difference	er de la composition	Yough to the
not a po	Rating Factor	The second second		ed Value e One)	Muiti- Dijer	HRS.	Max. Score	PRO
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	Oivide tine 🔠 b	y 57,330 and r	nultiply by	100	Sama	13.1	) -	1149

0= HRS Score = PRO Score

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<u></u>	If line 11 is 45.	muttery [] :	3 . 4	× 3				64,350	
7	Divide line 6 b					5 <sub>5w</sub> -			Charachar attended

The surface water migration route was scored zero; as there is no overland migration route from the site to surface water.

HRS	S	52
Groundwater Route Score (Sgw)	13.12	172.13
Surface Water Route Score (Saw)	0.00	0.00
Air Route Score (Sa)	0.00	0.00
S <sub>gw</sub> + S <sub>sw</sub> + S <sub>a</sub> <sup>2</sup>		172.13
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		13.12
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		7.58

## WORKSHEET FOR COMPUTING SM

PRO	s	<b>52</b>
Groundwater Route Score (Sgw)	21.49	46182
Surface Water Route Score (Saw)	0.00	0.00
Air Route Score (Sa)	0.00	0.00
52 + 52 + 52		461.82
$\sqrt{s_{qw}^2 + s_{sw}^2 + s_{a}^2}$		2149
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M -$		12.42

WORKSHEET FOR COMPUTING SM